

Orange County Mortality Data, 1999



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To our colleagues in public health,

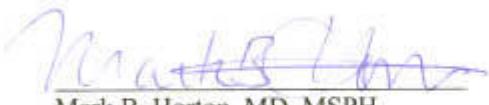
We are pleased to announce the availability of our statistical report, "Orange County Mortality Data, 1999." This information is compiled by the State of California from death certificates filed with the Birth and Death Registration Office of the County of Orange Health Care Agency, and is the most recent report in the annual series. This report is one of the crucial elements in monitoring the health status of Orange County and provides data necessary for the development of policies to improve the health of Orange County's population.

The information presented in this report can be considered to be the official data for 1999. Unless otherwise noted, reference is made to death *to Orange County residents*, regardless of where the event occurred. Similarly, deaths occurring within the county, but to residents of other jurisdictions, are *not* included in this report.

The report is available and can be downloaded from the Epidemiology and Assessment website, <http://www.ochealthinfo.com/epi/statistics.htm>.

Thank you for your interest in this special report. We encourage you to make other interested colleagues aware of its publication. If you would like more information, please feel free to contact Epidemiology and Assessment at (714) 834-8180.

Sincerely,


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1999 Mortality: Executive Summary

Important note to readers of this report

Significant changes in coding causes of death and in age adjustment were implemented with 1999 mortality data. It is important to keep in mind that these changes make direct comparisons with earlier data of uncertain validity, with the exception of comparisons of deaths due to all causes. A brief explanation of the changes follows.

International Classification of Diseases (ICD) 10th Revision

The International Classification of Diseases (ICD) 10th Revision has significant differences from the 9th revision: 1) changes in the actual codes, with a near doubling of the number of codes available, 2) changes in some of the methods for assigning the underlying cause of death, and 3) changes in the grouping of codes to determine leading causes of death. This means that there is not a 1:1 correspondence between codes used in the 9th and 10th revisions; similarly, there may not be a 1:1 correspondence between groups of causes (as in the leading causes of death) in this and previous mortality reports.

The federal government calculated “comparability ratios” for the change from ICD-9 to ICD-10 and uses them for trend analysis. However, the State of California has chosen not to use comparability ratios, and it is not clear how accurate these are at the county level. Among the most significant changes are a large decrease in deaths attributed to *Influenza and pneumonia*, estimated at 30%, and an increase in those due to *Alzheimer’s disease*, approximately 55%.

Age adjustment

Age adjustment is a statistical procedure used to remove the affect of different age distributions when comparing 2 populations with different age structures (see the “Computation of Rates” section). A “standard population” is chosen for this procedure. Most reports of mortality data have used the 1940 United States standard population (1940 standard) for age adjustment. Beginning with the 1999 mortality report, the federal government is using the year 2000 United States standard population (2000 standard), which is also used in this report. Care must be exercised in comparing age-adjusted data from different reports to be sure that the same population standard was used. Since the age distribution of the 2000 standard is shifted to older age groups, reflecting the growth in this population segment since 1940, and because death rates increase with age, the age-adjusted death rates using the new standard are, in most instances, larger than those using the 1940 standard. Please see “Age Standardization of death Rates: Implementation of the Year 2000 Standard” published by the National Center for Health Statistics (available at: http://www.cdc.gov/nchs/data/nvsr/nvsr47/nvsr47_03.pdf) for more information about how the change in population standard affects trends and comparisons of racial/ethnic death rates.

Use of State of California mortality data file

Until 1999, Orange County used a locally generated file for analysis of mortality data. Beginning with 1999 data, the file provided by the State of California is used. This ensures consistency between Orange County and California data.

Summary of 1999 mortality data

Crude death rate

There were 16,644 deaths among Orange County residents in 1999, up from 15,973 in 1998. The crude death rate was 585.6 per 100,000 in 1999, an increase of 1.3% from 1998 (577.9).

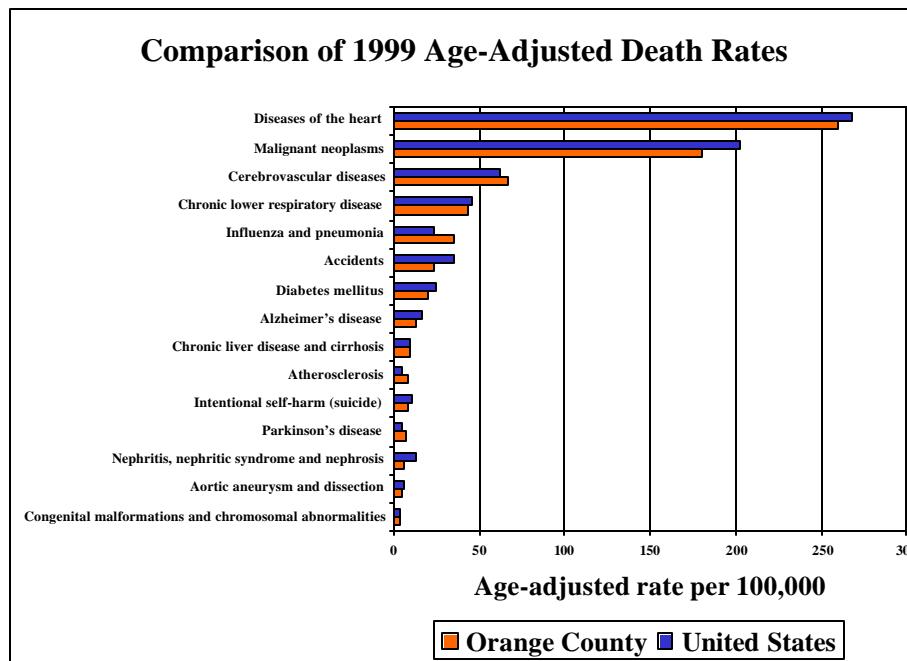
15 leading causes

The 15 leading causes accounted for 87.8% of all deaths in 1999. *Diseases of the heart* remained the leading cause, accounting for 5,296 (31.8%) deaths. *Malignant neoplasms*, ranked second with 4,012 deaths (24.1%). Lung cancer accounted for the largest share, 1,019 deaths (25.4%) of *Malignant neoplasms*, followed by lymphomas, leukemias and related cancers with 449 deaths (11.2%). The third leading cause of death was *Cerebrovascular diseases*, with 1,340 deaths (47.1 per 100,000), accounting for 8.1% of deaths.

Comparison to California and United States 1999 age-adjusted death rates

The overall age-adjusted death rate for Orange County in 1999 was 780.9 per 100,000. The corresponding California rate, 776.8 (preliminary data), was slightly lower, while the United States (U.S.) rate, 881.9, was higher. The finding that the Orange County 1999 age-adjusted rate was higher than that for California was a new finding that resulted from use of the newly implemented year 2000 U.S. population standard. Examination of age-specific rates revealed that the mortality rate in Orange County's elderly population (75 years and older) was greater than that for California and for counties of comparable size. This finding is being investigated.

Among the 15 leading causes of death in Orange County, age-adjusted rates were lower for Orange County than the United States for 11 of the causes and higher for 4 causes (see Figure 1).



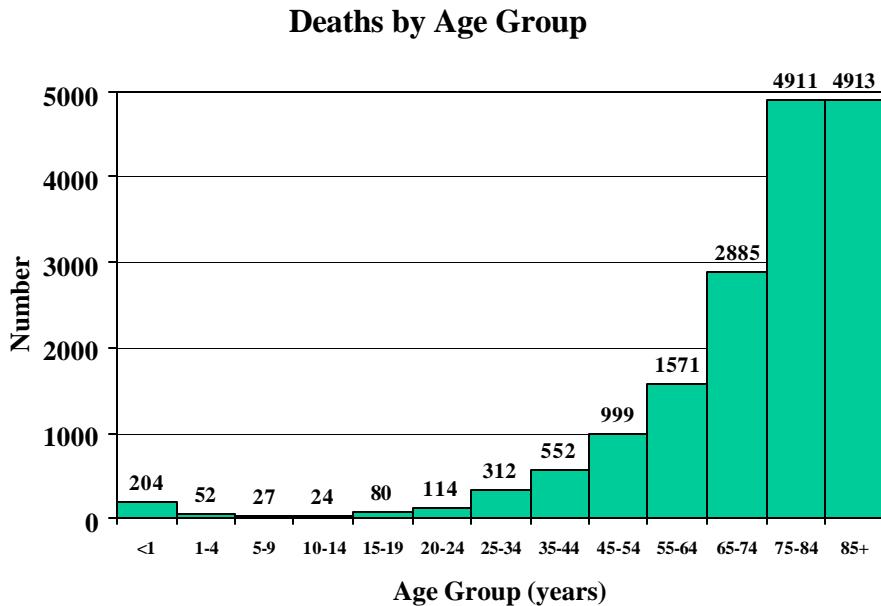
Sex differences

There were 8,696 female and 7,948 male deaths in Orange County in 1999. The ranking of the 1999 leading causes of death for males and females is shown in the following table.

Orange County		Males		Females	
Rank	Cause of death	Rank	Cause of death	Rank	Cause of death
1	<i>Diseases of the heart</i>	1	<i>Diseases of the heart</i>	1	<i>Diseases of the heart</i>
2	<i>Malignant neoplasms</i>	2	<i>Malignant neoplasms</i>	2	<i>Malignant neoplasms</i>
3	<i>Cerebrovascular diseases</i>	3	<i>Cerebrovascular diseases</i>	3	<i>Cerebrovascular diseases</i>
4	<i>Chronic lower respiratory disease</i>	4	<i>Accidents (unintentional injuries)</i>	4	<i>Chronic lower respiratory disease</i>
5	<i>Influenza and pneumonia</i>	5	<i>Chronic lower respiratory disease</i>	5	<i>Influenza and pneumonia</i>
6	<i>Accidents</i>	6	<i>Influenza and Pneumonia</i>	6	<i>Diabetes mellitus</i>
7	<i>Diabetes mellitus</i>	7	<i>Diabetes mellitus</i>	7	<i>Accidents (unintentional injuries)</i>
8	<i>Alzheimer's disease</i>	8	<i>Intentional self-harm (suicide)</i>	8	<i>Alzheimer's disease</i>
9	<i>Chronic liver disease and cirrhosis</i>	9	<i>Chronic liver disease and cirrhosis</i>	9	<i>Atherosclerosis</i>
10	<i>Intentional self-harm (suicide)</i>	10	<i>Parkinson's disease</i>	10	<i>Chronic liver disease and cirrhosis</i>
11	<i>Atherosclerosis</i>	11	<i>Assault (homicide)</i>	11	<i>Essential hypertension and hypertensive renal disease</i>
12	<i>Parkinson's disease</i>	12	<i>Aortic aneurysm and dissection</i>	12	<i>Congenital malformations and chromosomal abnormalities</i>
13	<i>Nephritis, nephritic syndrome and nephrosis</i>	13	<i>Nephritis, nephritic syndrome and nephrosis</i>	13	<i>Nephritis, nephritic syndrome and nephrosis</i>
14	<i>Aortic aneurysm and dissection</i>	14	<i>Alzheimer's disease</i>	14	<i>Certain conditions originating in the perinatal period</i>
15	<i>Congenital malformations and chromosomal abnormalities</i>	15	<i>HIV disease</i>	15	<i>Parkinson's disease</i>

Deaths by age group

Fifty-nine percent of all deaths in 1999 were among those aged 75 and older.



Among infants less than 1 year of age, the leading cause of death was *Congenital malformations and chromosomal abnormalities* (58 deaths), followed by *Short gestation and low birth weight disorders* (23 deaths) and *Sudden infant death syndrome* (12 deaths).

Accidents was the leading cause of death for the age groups 1-4 years, 5-9 years, 15-19 years, 20-24 years, 25-34 years, and 35-44 years. For the 10-14 age group, *Malignant neoplasms* (7 deaths) was first, followed by *Accidents* (5 deaths).

Intentional self-harm (suicide) first appeared as a leading cause in the 10-14 age group (2 suicides), surpassed *Assault* (homicide) in the 25-34 age group, where it was ranked third, and remained a leading cause through the 55- 64 age group.

Assault (homicide) was a leading cause of death for all age groups from infants through the 55-64 age group.

HIV infection, the 20th leading cause for all ages, was ranked highest among 35-44 year-olds (ranked fifth, 31 deaths), and was a leading cause for 25-34 year-olds (ranked 6th, 11 deaths) and the 45-54 age group (ranked 8th, 19 deaths).

Leading causes by race/ethnicity

Whites accounted for 82.4% of all 1999 deaths, Hispanics 9.4%, Southeast Asians 2.4%, Other Asians 4.5%, African Americans 1.1%, and others less than 1%.

Crude rates of death per 100,000 population were as follows: Whites 861.0, African Americans 405.0; Asian and Pacific Islanders 314.4, and Hispanics 189.0.

Diseases of the heart was the leading cause of death for Whites and Hispanics. *Malignant neoplasms* was first for Southeast Asians, Other Asians, and African-Americans.

Age-adjusted rates by race/ethnicity

Age-adjusted rates differed dramatically for many of the leading causes of death. African Americans had the highest death rate due to *Diseases of the heart* (311.9 per 100,000), followed by Whites (283.4 per 100,000), Asian & Pacific Islanders (175.8 per 100,000), and Hispanics (137.4 per 100,000). African Americans also had the highest death rate due to *Malignant neoplasms* (265.6 per 100,000), followed by Whites (193.1 per 100,000), Asian & Pacific Islanders (165.9 per 100,000), and Hispanics (100.4 per 100,000). Rates for Hispanics were lower than those for Whites for all 15 leading causes except for *Diabetes mellitus; Chronic liver disease and cirrhosis; Nephritis, nephritic syndrome and nephrosis; and Congenital malformations and chromosomal abnormalities*.

Injury mortality

Intentional self-harm (suicide) and *Motor vehicle accidents* were the leading causes of injury death in Orange County in 1999, both with 210 deaths. These were followed by *Accidental poisoning* (166 deaths), *Falls* (113 deaths), and *Assault* (homicide, 96 deaths). Among victims of falls, 69% were among those aged 75 years and older. There were 55 pedestrian deaths, 18 motorcyclist deaths, and 16 bicyclist deaths. 29 *Accidental drownings* occurred; 7 of these were in children aged 1-4 years.

Firearms were involved in 166 deaths: 98 suicides, 62 homicides, 2 unintentional deaths, and 4 deaths for which intent could not be determined. Firearms were used in 46.7% of suicides and 64.6% of homicides.

Fifteen Leading Causes of Death
Among Whites
Orange County Residents, 1999

<u>Rank</u>	<u>Cause of death & ICD-10 codes</u>	<u>No. of deaths</u>	<u>Percent</u>
1	Diseases of heart (<i>I00-I09, I11, I13, I20-I51</i>)	4,627	33.7
2	Malignant neoplasms (<i>C00-C97</i>)	3,299	24.0
3	Cerebrovascular diseases (<i>I60-I69</i>)	1,102	8.0
4	Chronic lower respiratory diseases (<i>J40-J47</i>)	813	5.9
5	Influenza and pneumonia (<i>J10-J18</i>)	576	4.2
6	Accidents (<i>V01-X59, Y85-Y86</i>)	412	3.0
-	Motor vehicle accid. (<i>V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2</i>).....	109	0.8
-	All other accidents	303	2.2
7	Diabetes mellitus (<i>E10-E14</i>)	300	2.2
8	Alzheimer's disease (<i>G30</i>)	224	1.6
9	Intentional self-harm (suicide) (<i>X60-X84, Y87.0</i>)	169	1.2
10	Chronic liver disease and cirrhosis (<i>K70, K73-K74</i>)	162	1.2
11	Atherosclerosis (<i>I70</i>)	140	1.0
12	Parkinson's disease (<i>G20-G21</i>)	118	0.9
13	Aortic aneurysm & dissection (<i>I71</i>)	104	0.8
14	Essential (primary) hypertension & hypertensive renal dis. (<i>I10, I12</i>)	98	0.7
15	Nephritis, nephrotic syndrome & nephrosis (<i>N00-N07, N17-N19, N25-N27</i>)	91	0.7
-	All other	1,483	10.8
Total		13,718	100.0

Fifteen Leading Causes of Death
Among Hispanics
Orange County Residents, 1999

Rank	Cause of death & ICD-10 codes	No. of deaths	Percent
1	Diseases of heart (<i>I00-I09, I11, I13, I20-I51</i>)	344	21.9
2	Malignant neoplasms (<i>C00-C97</i>)	306	19.5
3	Accidents (<i>V01-X59, Y85-Y86</i>)	138	8.8
-	Motor vehicle accid. (<i>V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2</i>).....	64	4.1
-	All other accidents	74	4.7
4	Cerebrovascular diseases (<i>I60-I69</i>)	106	6.7
5	Diabetes mellitus (<i>E10-E14</i>)	79	5.0
6	Certain conditions originating in the perinatal period (<i>P00-P96</i>)	61	3.9
7	Chronic liver disease and cirrhosis (<i>K70, K73-K74</i>)	51	3.2
8	Chronic lower respiratory diseases (<i>J40-J47</i>)	49	3.1
9	Influenza and pneumonia (<i>J10-J18</i>)	48	3.1
10	Congenital malformations & chromosomal abnormalities (<i>Q00-Q99</i>)	46	2.9
11	Assault (homicide) (<i>X85-Y09, Y87.1</i>)	45	2.9
12	HIV disease (<i>B20-B24</i>)	27	1.7
13	Nephritis, nephrotic syndrome & nephrosis (<i>N00-N07, N17-N19, N25-N27</i>)	23	1.5
14	Intentional self-harm (suicide) (<i>X60-X84, Y87.0</i>)	16	1.0
15	Atherosclerosis (<i>I70</i>)	13	0.8
-	All other	219	13.9
Total		1,571	100.0

Fifteen Leading Causes of Death
Among Southeast Asians
Orange County Residents, 1999

<u>Rank</u>	<u>Cause of death & ICD-10 codes</u>	<u>No. of deaths</u>	<u>Percent</u>
1	Malignant neoplasms (C00-C97)	135	33.4
2	Diseases of heart (I00-I09, I11, I13, I20-I51)	74	18.3
3	Cerebrovascular diseases (I60-I69)	45	11.1
4	Accidents (V01-X59, Y85-Y86)	22	5.4
	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, - V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	12	3.0
-	All other accidents	10	2.5
5	Influenza and pneumonia (J10-J18)	20	5.0
6	Diabetes mellitus (E10-E14)	11	2.7
6	Chronic lower respiratory diseases (J40-J47)	11	2.7
8	Assault (homicide) (X85-Y09, Y87.1)	10	2.5
9	Viral hepatitis (B15-B19)	7	1.7
9	Congenital malformations & chromosomal abnormalities (Q00-Q99)	7	1.7
9	Intentional self-harm (suicide) (X60-X84, Y87.0)	7	1.7
12	Chronic liver disease and cirrhosis (K70, K73-K74)	6	1.5
12	Certain conditions originating in the perinatal period (P00-P96)	6	1.5
14	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	4	1.0
15	Essential (primary) hypertension & hypertensive renal dis. (I10, I12)	3	0.7
-	All other	36	8.9
	Total	404	100.0

Fifteen Leading Causes of Death

Among Other Asians / Pacific Islanders*

Orange County Residents, 1999

<i>Rank</i>	<i>Cause of death & ICD-10 codes</i>	<i>No. of deaths</i>	<i>Percent</i>
1	<i>Malignant neoplasms (C00-C97)</i>	216	29.1
2	<i>Diseases of heart (I00-I09, I11, I13, I20-I51)</i>	201	27.1
3	<i>Cerebrovascular diseases (I60-I69)</i>	72	9.7
4	<i>Accidents (V01-X59, Y85-Y86)</i>	39	5.2
	<i>Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79,</i>		
-	<i>V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....</i>	20	2.7
-	<i>All other accidents</i>	19	2.6
5	<i>Diabetes mellitus (E10-E14)</i>	30	4.0
6	<i>Influenza and pneumonia (J10-J18)</i>	29	3.9
7	<i>Chronic lower respiratory diseases (J40-J47)</i>	16	2.2
8	<i>Intentional self-harm (suicide) (X60-X84, Y87.0)</i>	13	1.7
9	<i>Chronic liver disease and cirrhosis (K70, K73-K74)</i>	8	1.1
9	<i>Congenital malformations & chromosomal abnormalities (Q00-Q99)</i>	8	1.1
11	<i>Parkinson's disease (G20-G21)</i>	7	0.9
12	<i>Alzheimer's disease (G30)</i>	6	0.8
12	<i>Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)</i>	6	0.8
14	<i>Essential (primary) hypertension & hypertensive renal dis. (I10, I12)</i>	5	0.7
14	<i>Atherosclerosis (I70)</i>	5	0.7
14	<i>Peptic ulcer (K25-K28)</i>	5	0.7
14	<i>Certain conditions originating in the perinatal period (P00-P96)</i>	5	0.7
-	<i>All other</i>	72	9.7
	<i>Total</i>	<i>743</i>	<i>100.0</i>

* Other Asians includes the following racial categories: Chinese, Japanese, Korean, and Asian Indian.

Pacific Islanders includes the following racial categories: Hawaiian, Guamanian, Samoan, and Pacific Islander.

Fifteen Leading Causes of Death
Among African Americans
Orange County Residents, 1999

Rank	Cause of death & ICD-10 codes	No. of deaths	Percent
1	Malignant neoplasms (C00-C97)	49	27.2
2	Diseases of heart (I00-I09, I11, I13, I20-I51)	44	24.4
3	Cerebrovascular diseases (I60-I69)	14	7.8
4	Accidents (V01-X59, Y85-Y86)	11	6.1
-	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	5	2.8
-	All other accidents	6	3.3
5	Chronic lower respiratory diseases (J40-J47)	8	4.4
6	Diabetes mellitus (E10-E14)	6	3.3
7	Intentional self-harm (suicide) (X60-X84, Y87.0)	5	2.8
8	Influenza and pneumonia (J10-J18)	4	2.2
8	Certain conditions originating in the perinatal period (P00-P96)	4	2.2
10	HIV disease (B20-B24)	3	1.7
10	Essential (primary) hypertension & hypertensive renal dis. (I10, I12)	3	1.7
10	Chronic liver disease and cirrhosis (K70, K73-K74)	3	1.7
10	Congenital malformations & chromosomal abnormalities (Q00-Q99)	3	1.7
14	Assault (homicide) (X85-Y09, Y87.1)	2	1.1
15	In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48) .	1	0.6
15	Alzheimer's disease (G30)	1	0.6
15	Atherosclerosis (I70)	1	0.6
15	Aortic aneurysm & dissection (I71)	1	0.6
15	Diseases of appendix (K35-K38)	1	0.6
15	Complications of medical & surgical care (Y40-Y84, Y88)	1	0.6
-	All other	15	8.3
Total		180	100.0

**Fifteen Leading Causes of Death
Orange County Residents, 1999**

All ages

Rank	Cause of death & ICD-10 codes	No. of deaths	Rate per 100,000 pop.
1	<i>Diseases of heart</i> (I00-I09, I11, I13, I20-I51)	5,296	186.3
2	<i>Malignant neoplasms</i> (C00-C97)	4,012	141.1
3	<i>Cerebrovascular diseases</i> (I60-I69)	1,340	47.1
4	<i>Chronic lower respiratory diseases</i> (J40-J47)	899	31.6
5	<i>Influenza and pneumonia</i> (J10-J18)	680	23.9
6	<i>Accidents</i> (V01-X59, Y85-Y86)	623	21.9
	<i>Motor vehicle accid.</i> (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	210	7.4
-	<i>All other accidents</i>	413	14.5
7	<i>Diabetes mellitus</i> (E10-E14)	427	15.0
8	<i>Alzheimer's disease</i> (G30)	244	8.6
9	<i>Chronic liver disease and cirrhosis</i> (K70, K73-K74)	232	8.2
10	<i>Intentional self-harm (suicide)</i> (X60-X84, Y87.0)	210	7.4
11	<i>Atherosclerosis</i> (I70)	160	5.6
12	<i>Parkinson's disease</i> (G20-G21)	134	4.7
13	<i>Nephritis, nephrotic syndrome & nephrosis</i> (N00-N07, N17-N19, N25-N27)	124	4.4
14	<i>Aortic aneurysm & dissection</i> (I71)	113	4.0
15	<i>Congenital malformations & chromosomal abnormalities</i> (Q00-Q99)	112	3.9
-	<i>All other</i>	2,038	71.7
	Total	16,644	585.6

Fifteen Leading Causes of Death*

Orange County Residents, 1999

Under one year of age

<u>Rank</u>	<u>Cause of death & ICD-10 codes</u>	<u>No. of deaths</u>	<u>Age-specif. Rate** per 100,000 pop.</u>
1	<i>Congenital malformations, deformations & chromosomal abnorm. (Q00-Q99) ...</i>	58	118.3
2	<i>Short gestation & low birth weight disorders, not classified elsewhere (P07)</i>	23	46.9
3	<i>Sudden infant death syndrome (R95)</i>	12	24.5
4	<i>Neonatal hemorrhage (P50-P52, P54)</i>	10	20.4
5	<i>Accidents (V01-X59, Y85-Y86)</i>	9	18.4
-	<i> Motor vehicle accidents (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79,</i>		
-	<i> V80.3-V80.5, V80.0-V80.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2)</i>	3	--
-	<i> All other accidents</i>	6	12.2
6	<i>Respiratory distress of newborn (P22)</i>	7	14.3
7	<i>Diseases of the circulatory system (I00-I99)</i>	4	--
7	<i>Interstitial emphysema & rel't'd cond. originating in perinatal period (P25)</i>	4	--
7	<i>Assault (homicide) (X85-Y09, Y87.1)</i>	4	--
9	<i>Hydrops fetalis not due to hemolytic disease (P83.2)</i>	3	--
10	<i>Septicemia (A40-A41)</i>	2	--
	<i>Diseases of the blood & blood-forming organs & certain disorders</i>		
10	<i> involving the immune mechanism (D50-D89)</i>	2	--
10	<i> Intrauterine hypoxia and birth asphyxia (P20-P21)</i>	2	--
10	<i> Congenital pneumonia (P23)</i>	2	--
10	<i> Neonatal aspiration syndromes (P24)</i>	2	--
10	<i> Atelectasis (P28.0, P28.1)</i>	2	--
10	<i> Bacterial sepsis of newborn (P36)</i>	2	--
10	<i> Hematological disorders (P60-P61)</i>	2	--
-	<i> All other</i>	54	--
	Total	204	416.2

-- Rates not calculated for deaths fewer than five or for "all other" causes

* Infant deaths are based on the federal list of 130 selected causes

** These are infant death (not mortality) rates; they are based on 100,000 population in this age group

**Fifteen Leading Causes of Death
Orange County Residents, 1999**

1 - 4 years of age

<u>Rank</u>	<u>Cause of death & ICD-10 codes</u>	<u>No. of deaths</u>	<i>Age-specif. Rate per 100,000 pop.</i>
1	Accidents (V01-X59, Y85-Y86)	19	9.5
	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	7	3.5
-	All other accidents	12	6.0
2	Congenital malformations & chromosomal abnormalities (Q00-Q99)	11	5.5
3	Malignant neoplasms (C00-C97)	4	--
3	Assault (homicide) (X85-Y09, Y87.1)	4	--
5	Certain conditions originating in the perinatal period (P00-P96)	3	--
6	In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48)	1	--
6	Diseases of heart (I00-I09, I11, I13, I20-I51)	1	--
6	Cerebrovascular diseases (I60-I69)	1	--
6	Influenza and pneumonia (J10-J18)	1	--
6	Chronic lower respiratory diseases (J40-J47)	1	--
6	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	1	--
-	All other	5	2.5
Total		52	26.0

-- Rates not calculated for deaths fewer than five

Fifteen Leading Causes of Death

Orange County Residents, 1999

5 - 9 years of age

<u>Rank</u>	<u>Cause of death & ICD-10 codes</u>	<u>No. of deaths</u>	<i>Age-specif. Rate per 100,000 pop.</i>
1	Accidents (V01-X59, Y85-Y86)	9	3.5
	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	6	2.3
-	All other accidents	3	--
2	Congenital malformations & chromosomal abnormalities (Q00-Q99)	6	2.3
3	Malignant neoplasms (C00-C97)	5	1.9
4	HIV disease (B20-B24)	1	--
4	Diseases of heart (I00-I09, I11, I13, I20-I51)	1	--
4	Influenza and pneumonia (J10-J18)	1	--
4	Hernia (K40-K46)	1	--
4	Assault (homicide) (X85-Y09, Y87.1)	1	--
-	All other	2	--
Total		27	10.5

-- Rates not calculated for deaths fewer than five

Fifteen Leading Causes of Death

Orange County Residents, 1999

10 - 14 years of age

<u>Rank</u>	<u>Cause of death & ICD-10 codes</u>	<u>No. of deaths</u>	<i>Age-specif. Rate per 100,000 pop.</i>
1	Malignant neoplasms (C00-C97)	7	3.6
2	Accidents (V01-X59, Y85-Y86)	5	2.6
-	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	0	0.0
-	All other accidents	5	2.6
3	Assault (homicide) (X85-Y09, Y87.1)	3	--
4	Intentional self-harm (suicide) (X60-X84, Y87.0)	2	--
5	Septicemia (A40-A41)	1	--
5	In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48)	1	--
5	Diseases of heart (I00-I09, I11, I13, I20-I51)	1	--
5	Influenza and pneumonia (J10-J18)	1	--
5	Congenital malformations & chromosomal abnormalities (Q00-Q99)	1	--
-	All other	2	--
Total			<u>24</u> <u>12.5</u>

-- Rates not calculated for deaths fewer than five

Fifteen Leading Causes of Death

Orange County Residents, 1999

15 - 19 years of age

<u>Rank</u>	<u>Cause of death & ICD-10 codes</u>	<u>No. of deaths</u>	<i>Age-specif. Rate per 100,000 pop.</i>
1	Accidents (V01-X59, Y85-Y86)	26	15.0
	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	17	9.8
-	All other accidents	9	5.2
2	Assault (homicide) (X85-Y09, Y87.1)	20	11.5
3	Malignant neoplasms (C00-C97)	11	6.3
4	Intentional self-harm (suicide) (X60-X84, Y87.0)	5	2.9
5	In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48)	1	--
5	Diabetes mellitus (E10-E14)	1	--
5	Diseases of heart (I00-I09, I11, I13, I20-I51)	1	--
5	Cerebrovascular diseases (I60-I69)	1	--
5	Influenza and pneumonia (J10-J18)	1	--
5	Congenital malformations & chromosomal abnormalities (Q00-Q99)	1	--
-	All other	12	6.9
	Total	<u>80</u>	<u>46.0</u>

-- Rates not calculated for deaths fewer than five

Fifteen Leading Causes of Death

Orange County Residents, 1999

20 - 24 years of age

<u>Rank</u>	<u>Cause of death & ICD-10 codes</u>	<u>No. of deaths</u>	<i>Age-specif. Rate per 100,000 pop.</i>
1	Accidents (V01-X59, Y85-Y86)	43	26.6
	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	27	16.7
-	All other accidents	16	9.9
2	Assault (homicide) (X85-Y09, Y87.1)	17	10.5
3	Intentional self-harm (suicide) (X60-X84, Y87.0)	14	8.6
4	Malignant neoplasms (C00-C97)	11	6.8
5	Diseases of heart (I00-I09, I11, I13, I20-I51)	2	--
5	Cerebrovascular diseases (I60-I69)	2	--
5	Legal intervention (Y35, Y89.0)	2	--
8	Tuberculosis (A16-A19)	1	--
8	Diabetes mellitus (E10-E14)	1	--
8	Pregnancy, childbirth and the puerperium (O00-O99)	1	--
8	Congenital malformations & chromosomal abnormalities (Q00-Q99)	1	--
-	All other	19	11.7
Total		114	70.4

-- Rates not calculated for deaths fewer than five

Fifteen Leading Causes of Death

Orange County Residents, 1999

25 - 34 years of age

<u>Rank</u>	<u>Cause of death & ICD-10 codes</u>	<u>No. of deaths</u>	<i>Age-specif. Rate per 100,000 pop.</i>
1	Accidents (V01-X59, Y85-Y86)	101	22.6
	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	45	10.1
-	All other accidents	56	12.5
2	Malignant neoplasms (C00-C97)	47	10.5
3	Intentional self-harm (suicide) (X60-X84, Y87.0)	36	8.0
4	Diseases of heart (I00-I09, I11, I13, I20-I51)	24	5.4
5	Assault (homicide) (X85-Y09, Y87.1)	17	3.8
6	HIV disease (B20-B24)	11	2.5
7	Cerebrovascular diseases (I60-I69)	7	1.6
7	Chronic liver disease and cirrhosis (K70, K73-K74)	7	1.6
9	Diabetes mellitus (E10-E14)	6	1.3
10	Chronic lower respiratory diseases (J40-J47)	3	--
10	Congenital malformations & chromosomal abnormalities (Q00-Q99)	3	--
12	In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48)	2	--
13	Meningococcal infection (A39)	1	--
13	Septicemia (A40-A41)	1	--
13	Essential (primary) hypertension & hypertensive renal dis. (I10, I12)	1	--
13	Acute bronchitis & bronchiolitis (J20-J21)	1	--
13	Cholelithiasis & other disorders of gallbladder (K80-K82)	1	--
13	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	1	--
13	Infections of kidney (N10-N12, N13.6, N15.1)	1	--
13	Pregnancy, childbirth and the puerperium (O00-O99)	1	--
13	Legal intervention (Y35, Y89.0)	1	--
13	Complications of medical & surgical care (Y40-Y84, Y88)	1	--
-	All other	38	8.5
Total		312	69.7

-- Rates not calculated for deaths fewer than five

Fifteen Leading Causes of Death
Orange County Residents, 1999

35 - 44 years of age

<u>Rank</u>	<u>Cause of death & ICD-10 codes</u>	<u>No. of deaths</u>	<i>Age-specif. Rate per 100,000 pop.</i>
1	Accidents (V01-X59, Y85-Y86)	119	24.3
	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	36	7.4
-	All other accidents	83	17.0
2	Malignant neoplasms (C00-C97)	111	22.7
3	Diseases of heart (I00-I09, I11, I13, I20-I51)	75	15.3
4	Intentional self-harm (suicide) (X60-X84, Y87.0)	43	8.8
5	HIV disease (B20-B24)	31	6.3
6	Chronic liver disease and cirrhosis (K70, K73-K74)	26	5.3
7	Cerebrovascular diseases (I60-I69)	17	3.5
8	Assault (homicide) (X85-Y09, Y87.1)	13	2.7
9	Diabetes mellitus (E10-E14)	11	2.2
10	Congenital malformations & chromosomal abnormalities (Q00-Q99)	5	1.0
11	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	4	--
11	Pregnancy, childbirth and the puerperium (O00-O99)	4	--
13	Viral hepatitis (B15-B19)	3	--
13	Influenza and pneumonia (J10-J18)	3	--
13	Chronic lower respiratory diseases (J40-J47)	3	--
-	All other	84	17.2
Total		552	112.8

-- Rates not calculated for deaths fewer than five

**Fifteen Leading Causes of Death
Orange County Residents, 1999**

45 - 54 years of age

Rank	Cause of death & ICD-10 codes	No. of deaths	Age-specif. Rate per 100,000 pop.
1	Malignant neoplasms (C00-C97)	337	92.0
2	Diseases of heart (I00-I09, I11, I13, I20-I51)	218	59.5
3	Accidents (V01-X59, Y85-Y86)	86	23.5
	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	24	6.5
-	All other accidents	62	16.9
4	Chronic liver disease and cirrhosis (K70, K73-K74)	57	15.6
5	Cerebrovascular diseases (I60-I69)	48	13.1
6	Intentional self-harm (suicide) (X60-X84, Y87.0)	41	11.2
7	Diabetes mellitus (E10-E14)	25	6.8
8	HIV disease (B20-B24)	19	5.2
9	Chronic lower respiratory diseases (J40-J47)	15	4.1
10	Congenital malformations & chromosomal abnormalities (Q00-Q99)	8	2.2
10	Assault (homicide) (X85-Y09, Y87.1)	8	2.2
12	Aortic aneurysm & dissection (I71)	7	1.9
12	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	7	1.9
14	Viral hepatitis (B15-B19)	5	1.4
14	Influenza and pneumonia (J10-J18)	5	1.4
-	All other	113	30.8
Total		999	272.6

Fifteen Leading Causes of Death

Orange County Residents, 1999

55 - 64 years of age

<u>Rank</u>	<u>Cause of death & ICD-10 codes</u>	<u>No. of deaths</u>	<i>Age-specif. Rate per 100,000 pop.</i>
1	Malignant neoplasms (C00-C97)	685	290.2
2	Diseases of heart (I00-I09, I11, I13, I20-I51)	350	148.3
3	Chronic lower respiratory diseases (J40-J47)	72	30.5
4	Cerebrovascular diseases (I60-I69)	67	28.4
5	Diabetes mellitus (E10-E14)	58	24.6
6	Chronic liver disease and cirrhosis (K70, K73-K74)	56	23.7
7	Accidents (V01-X59, Y85-Y86)	42	17.8
	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	17	7.2
-	All other accidents	25	10.6
8	Intentional self-harm (suicide) (X60-X84, Y87.0)	25	10.6
9	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	15	6.4
10	Influenza and pneumonia (J10-J18)	14	5.9
11	Aortic aneurysm & dissection (I71)	10	4.2
12	Congenital malformations & chromosomal abnormalities (Q00-Q99)	9	3.8
13	Peptic ulcer (K25-K28)	7	3.0
13	Assault (homicide) (X85-Y09, Y87.1)	7	3.0
15	In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48)	6	2.5
15	Essential (primary) hypertension & hypertensive renal dis. (I10, I12)	6	2.5
-	All other	142	60.2
Total		1,571	665.6

Fifteen Leading Causes of Death

Orange County Residents, 1999

65 - 74 years of age

<u>Rank</u>	<u>Cause of death & ICD-10 codes</u>	<u>No. of deaths</u>	<u>Age-specif. Rate per 100,000 pop.</u>
1	Malignant neoplasms (C00-C97)	1,008	656.7
2	Diseases of heart (I00-I09, I11, I13, I20-I51)	825	537.5
3	Chronic lower respiratory diseases (J40-J47)	210	136.8
4	Cerebrovascular diseases (I60-I69)	194	126.4
5	Diabetes mellitus (E10-E14)	102	66.5
6	Influenza and pneumonia (J10-J18)	64	41.7
7	Chronic liver disease and cirrhosis (K70, K73-K74)	44	28.7
8	Accidents (V01-X59, Y85-Y86)	36	23.5
	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	13	8.5
-	All other accidents	23	15.0
9	Aortic aneurysm & dissection (I71)	33	21.5
10	Parkinson's disease (G20-G21)	23	15.0
10	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	23	15.0
10	Intentional self-harm (suicide) (X60-X84, Y87.0)	23	15.0
13	Alzheimer's disease (G30)	20	13.0
14	Essential (primary) hypertension & hypertensive renal dis. (I10, I12)	19	12.4
15	In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48)	16	10.4
15	Atherosclerosis (I70)	16	10.4
-	All other	229	149.2
	Total	2,885	1,879.6

Fifteen Leading Causes of Death

Orange County Residents, 1999

75 - 84 years of age

<u>Rank</u>	<u>Cause of death & ICD-10 codes</u>	<u>No. of deaths</u>	<i>Age-specif. Rate per 100,000 pop.</i>
1	<i>Diseases of heart</i> (I00-I09, I11, I13, I20-I51)	1,644	1,886.7
2	<i>Malignant neoplasms</i> (C00-C97)	1,198	1,374.8
3	<i>Cerebrovascular diseases</i> (I60-I69)	465	533.6
4	<i>Chronic lower respiratory diseases</i> (J40-J47)	358	410.8
5	<i>Influenza and pneumonia</i> (J10-J18)	235	269.7
6	<i>Diabetes mellitus</i> (E10-E14)	141	161.8
7	<i>Alzheimer's disease</i> (G30)	76	87.2
8	<i>Accidents</i> (V01-X59, Y85-Y86)	69	79.2
	<i>Motor vehicle accid.</i> (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	8	9.2
-	<i>All other accidents</i>	61	70.0
9	<i>Parkinson's disease</i> (G20-G21)	55	63.1
10	<i>Atherosclerosis</i> (I70)	47	53.9
11	<i>Aortic aneurysm & dissection</i> (I71)	40	45.9
12	<i>Chronic liver disease and cirrhosis</i> (K70, K73-K74)	36	41.3
13	<i>Nephritis, nephrotic syndrome & nephrosis</i> (N00-N07, N17-N19, N25-N27)	32	36.7
14	<i>Essential (primary) hypertension & hypertensive renal dis.</i> (I10, I12)	31	35.6
15	<i>In situ neopl., benign neopl., & neoplasms of unknown behavior</i> (D00-D48)	30	34.4
-	<i>All other</i>	454	521.0
	Total	4,911	5,635.9

Fifteen Leading Causes of Death
Orange County Residents, 1999
85 years of age and over

<u>Rank</u>	<u>Cause of death & ICD-10 codes</u>	<u>No. of deaths</u>	<i>Age-specif. Rate per 100,000 pop.</i>
1	<i>Diseases of heart</i> (I00-I09, I11, I13, I20-I51)	2,150	7,465.5
2	<i>Malignant neoplasms</i> (C00-C97)	587	2,038.3
3	<i>Cerebrovascular diseases</i> (I60-I69)	538	1,868.1
4	<i>Influenza and pneumonia</i> (J10-J18)	354	1,229.2
5	<i>Chronic lower respiratory diseases</i> (J40-J47)	235	816.0
6	<i>Alzheimer's disease</i> (G30)	147	510.4
7	<i>Atherosclerosis</i> (I70)	90	312.5
8	<i>Diabetes mellitus</i> (E10-E14)	82	284.7
9	<i>Accidents</i> (V01-X59, Y85-Y86)	59	204.9
	<i>Motor vehicle accid.</i> (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	7	24.3
-	<i>All other accidents</i>	52	180.6
10	<i>Parkinson's disease</i> (G20-G21)	55	191.0
11	<i>Essential (primary) hypertension & hypertensive renal dis.</i> (I10, I12)	51	177.1
12	<i>Nephritis, nephrotic syndrome & nephrosis</i> (N00-N07, N17-N19, N25-N27)	40	138.9
13	<i>Aortic aneurysm & dissection</i> (I71)	22	76.4
14	<i>In situ neopl., benign neopl., & neoplasms of unknown behavior</i> (D00-D48)	21	72.9
15	<i>Peptic ulcer</i> (K25-K28)	16	55.6
-	<i>All other</i>	466	1,618.1
	Total	4,913	17,059.6

Age-adjusted death rates for 15 leading causes of death
Comparing Orange County with California and United States (1999)

	OC	CA*	US
All causes	780.9	761.8	881.9
Diseases of heart (I00-I09, I11, I13, I20-I51)	260.4	238.7	267.7
Malignant neoplasms (C00-C97)	180.9	176.1	202.7
Cerebrovascular diseases (I60-I69)	66.4	62.0	61.8
Chronic lower respiratory diseases (J40-J47)	43.6	44.9	45.8
Influenza and pneumonia (J10-J18)	34.9	27.7	23.6
Accidents (V01-X59, Y85-Y86)	24.1	27.0	35.9
Diabetes mellitus (E10-E14)	19.8	20.1	25.2
Alzheimer's disease (G30)	12.7	13.8	16.5
Chronic liver disease and cirrhosis (K70, K73-K74)	9.3	11.3	9.7
Atherosclerosis (I70)	8.2	6.2	5.5
Intentional self-harm (suicide) (X60-X84, Y87.0)	7.9	9.2	10.7
Parkinson's disease (G20-G21)	6.8	4.8	5.4
Nephritis, neph. synd. & nephrosis (N00-N07, N17-N19, N25-N27)	5.8	5.9	13.1
Aortic aneurysm & dissection (I71)	5.3	4.8	5.8
Congenital malform. & chromosomal abnorm. (Q00-Q99)	3.6	3.4	3.8

* Since all rates in this report have been based on incremented population figures (see appendix), California rates were also calculated on similarly incremented population figures for California.

Cause of Death by Rank

*Orange County Residents, 1999
Based on 113 selected causes of death*

Rank	Both	Male	Fem.	Cause of Death (ICD-10 code)	No. of Deaths			Rate (per 100,000 pop.)		
					Both	Male	Fem.	Both	Male	Fem.
1	1	1	1	Diseases of heart (I00-I09, I11, I13, I20-I51)	5,296	2,485	2,811	186.3	172.9	200.0
-	-	-	-	Acute rheumatic fever & chronic rheumatic heart diseases (I00-I09)	31	14	17	1.1	1.0	1.2
-	-	-	-	Hypertensive heart disease (I11)	152	50	102	5.3	3.5	7.3
-	-	-	-	Hypertensive heart & renal disease (I13)	37	16	21	1.3	1.1	1.5
-	-	-	-	Ischemic heart diseases (I20-I25)	4,462	2,133	2,329	157.0	148.4	165.7
-	-	-	-	Acute myocardial infarction (I21-I22)	1,334	702	632	46.9	48.8	45.0
-	-	-	-	Other acute ischemic heart disease (I24)	4	2	2	--	--	--
-	-	-	-	Other forms of chronic ischemic heart disease (I20, I25)	3,124	1,429	1,695	109.9	99.4	120.6
-	-	-	-	Atherosclerotic cardiovascular disease, so described (I25.0)	538	213	325	18.9	14.8	23.1
-	-	-	-	All other forms of chronic ischemic heart disease (I20, I25.1-I25.9)	2,586	1,216	1,370	91.0	84.6	97.5
-	-	-	-	Other heart diseases (I26-I51)	614	272	342	21.6	18.9	24.3
-	-	-	-	Acute & subacute endocarditis (I33)	8	5	3	0.3	0.3	--
-	-	-	-	Diseases of pericardium & acute myocarditis (I30-I31, I40)	8	5	3	0.3	0.3	--
-	-	-	-	Heart failure (I50)	173	58	115	6.1	4.0	8.2
-	-	-	-	All other forms of heart disease (I26-I28, I34-I38, I42-I49, I51)	425	204	221	15.0	14.2	15.7
2	2	2	2	Malignant neoplasms (C00-C97)	4,012	2,000	2,012	141.1	139.2	143.2
-	-	-	-	Malignant neoplasms of lip, oral cavity & pharynx (C00-C14)	69	38	31	2.4	2.6	2.2
-	-	-	-	Malignant neoplasm of esophagus (C15)	101	76	25	3.6	5.3	1.8
-	-	-	-	Malignant neoplasm of stomach (C16)	113	65	48	4.0	4.5	3.4
-	-	-	-	Malignant neoplasms of colon, rectum and anus (C18-C21)	393	198	195	13.8	13.8	13.9
-	-	-	-	Malignant neoplasms of liver & intrahepatic bile ducts (C22)	113	74	39	4.0	5.1	2.8
-	-	-	-	Malignant neoplasm of pancreas (C25)	211	108	103	7.4	7.5	7.3
-	-	-	-	Malignant neoplasm of larynx (C32)	12	6	6	0.4	0.4	0.4
-	-	-	-	Malignant neoplasms of trachea, bronchus & lung (C33-C34)	1,019	530	489	35.8	36.9	34.8
-	-	-	-	Malignant melanoma of skin (C43)	65	42	23	2.3	2.9	1.6
-	-	-	-	Malignant neoplasm of breast (C50)	304	0	304	10.7	--	21.6
-	-	-	-	Malignant neoplasm of cervix uteri (C53)	40	0	40	1.4	--	2.8

- Not ranked (only the broader category, which includes this item, is ranked)

-- Rates not calculated for deaths fewer than five

Rank	<u>Cause of Death (ICD-10 code)</u>	No. of Deaths			Rate (per 100,000 pop.)		
		Both	Male	Fem.	Both	Male	Fem.
-	<i>Malignant neoplasms of corpus uteri & uterus, part unspec. (C54-C55)</i>	44	0	44	1.5	--	3.1
-	<i>Malignant neoplasm of ovary (C56)</i>	121	0	121	4.3	--	8.6
-	<i>Malignant neoplasm of prostate (C61)</i>	217	217	0	7.6	15.1	--
-	<i>Malignant neoplasms of kidney & renal pelvis (C64-C65)</i>	65	39	26	2.3	2.7	1.9
-	<i>Malignant neoplasm of bladder (C67)</i>	94	64	30	3.3	4.5	2.1
-	<i>Malignant neoplasms of meninges, brain & oth. Parts of CNS (C70-C72)</i>	129	69	60	4.5	4.8	4.3
-	<i>Malig. neoplasms of lymphoid, hematopoietic & related tissues (C81-C96)</i>	449	250	199	15.8	17.4	14.2
-	<i>Hodgkin's disease (C81)</i>	14	7	7	0.5	0.5	0.5
-	<i>Non-Hodgkin's lymphoma (C82-C85)</i>	173	103	70	6.1	7.2	5.0
-	<i>Leukemia (C91-C95)</i>	195	105	90	6.9	7.3	6.4
-	<i>Multiple myeloma & immunoproliferative neoplasms (C88, C90)</i>	65	35	30	2.3	2.4	2.1
-	<i>Oth. & unspec. malig. neoplasms of lymphoid & related tissues (C96)</i>	2	0	2	--	--	--
-	<i>All other & unspec. malignant neoplasms (C17, C23-C24, C26-C31, C37-C41, C44- C49, C51-C52, C57-C60, C62-C63, C66, C68-C69, C73-C80, C97)</i>	453	224	229	15.9	15.6	16.3
3	3 <i>Cerebrovascular diseases (I60-I69)</i>	1,340	489	851	47.1	34.0	60.6
4	5 <i>Chronic lower respiratory diseases (J40-J47)</i>	899	397	502	31.6	27.6	35.7
-	<i>Bronchitis, chronic & unspecified (J40-J42)</i>	10	2	8	0.4	--	0.6
-	<i>Emphysema (J43)</i>	142	66	76	5.0	4.6	5.4
-	<i>Asthma (J45-J46)</i>	35	12	23	1.2	0.8	1.6
-	<i>Other chronic lower respiratory diseases (J44, J47)</i>	712	317	395	25.0	22.1	28.1
5	6 <i>Influenza and pneumonia (J10-J18)</i>	680	282	398	23.9	19.6	28.3
-	<i>Influenza (J10-J11)</i>	7	0	7	0.2	--	0.5
-	<i>Pneumonia (J12-J18)</i>	673	282	391	23.7	19.6	27.8
6	4 <i>Accidents (V01-X59, Y85-Y86)</i>	623	414	209	21.9	28.8	14.9
-	<i>Transport accidents (V01-V99, Y85)</i>	248	185	63	8.7	12.9	4.5
-	<i>Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6,V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....</i>	210	155	55	7.4	10.8	3.9
-	<i>Oth. land transp. accid. (V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3,V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9</i>	17	9	8	0.6	0.6	0.6
-	<i>Water, air & space, and other & unspec. transp. accid. (V90-V99, Y85)</i>	21	21	0	0.7	1.5	--
-	<i>Nontransport accidents (W00-X59, Y86)</i>	375	229	146	13.2	15.9	10.4
-	<i>Falls (W00-W19)</i>	113	59	54	4.0	4.1	3.8

- Not ranked (only the broader category, which includes this item, is ranked)

-- Rates not calculated for deaths fewer than five

Rank	<u>Cause of Death (ICD-10 code)</u>			<u>No. of Deaths</u>			<u>Rate (per 100,000 pop.)</u>		
	<u>Both</u>	<u>Male</u>	<u>Fem.</u>	<u>Both</u>	<u>Male</u>	<u>Fem.</u>	<u>Both</u>	<u>Male</u>	<u>Fem.</u>
-	-	-	-	<i>Accidental discharge of firearms (W32-W34)</i>	2	2	0	--	--
-	-	-	-	<i>Accidental drowning and submersion (W65-W74)</i>	29	22	7	1.0	1.5
-	-	-	-	<i>Accidental exposure to smoke, fire and flames (X00-X09)</i>	7	2	5	0.2	--
-	-	-	-	<i>Accidental poisoning & exposure to noxious substances (X40-X49)</i>	166	108	58	5.8	7.5
-	-	-	-	<i>Other & unspecified nontransport accidents (W20-W31, W35-W64, W75-W99, X10-X39, X50-X59, Y86)</i>	58	36	22	2.0	2.5
7	7	6		Diabetes mellitus (E10-E14)	427	197	230	15.0	13.7
8	14	8		Alzheimer's disease (G30)	244	64	180	8.6	4.5
9	9	10		Chronic liver disease and cirrhosis (K70, K73-K74)	232	157	75	8.2	10.9
-	-	-	-	<i>Alcoholic liver disease (K70)</i>	148	111	37	5.2	7.7
-	-	-	-	<i>Other chronic liver disease and cirrhosis (K73-K74)</i>	84	46	38	3.0	3.2
10	8	16		Intentional self-harm (suicide) (X60-X84, Y87.0)	210	165	45	7.4	11.5
-	-	-	-	<i>Intentional self-harm (suicide) by firearms (X72-X74)</i>	98	89	9	3.4	6.2
-	-	-	-	<i>Intent'l self-harm (suicide) by oth. & unspec. means (X60-X71, X75-X84, Y87.0)</i>	112	76	36	3.9	5.3
11	16	9		Atherosclerosis (I70)	160	52	108	5.6	3.6
12	10	15		Parkinson's disease (G20-G21)	134	84	50	4.7	5.8
13	13	13		Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	124	67	57	4.4	4.7
-	-	-	-	<i>Acute & rapidly progressive nephritic & nephrotic synd. (N00-N01, N04)</i>	1	0	1	--	--
-	-	-	-	<i>Chronic glomerulonephritis, nephritis, and nephritis not specified as acute or chronic, and renal sclerosis unspecified (N02-N03, N05-N07, N26)</i>	10	5	5	0.4	0.3
-	-	-	-	<i>Renal failure (N17-N19)</i>	113	62	51	4.0	4.3
-	-	-	-	<i>Other disorders of kidney (N25, N27)</i>	0	0	0	--	--
14	12	18		Aortic aneurysm & dissection (I71)	113	71	42	4.0	4.9
15	16	12		Congenital malformations & chromosomal abnormalities (Q00-Q99)	112	52	60	3.9	3.6
16	19	11		Essential (primary) hypertension & hypertensive renal dis. (I10, I12)	111	44	67	3.9	3.1
17	18	14		Certain conditions originating in the perinatal period (P00-P96)	101	50	51	3.6	3.5
18	11	20		Assault (homicide) (X85-Y09, Y87.1)	96	72	24	3.4	5.0
-	-	-	-	<i>Assault (homicide) by firearms (X93-X95)</i>	62	51	11	2.2	3.5
-	-	-	-	<i>Assault (homicide) by other & unspecified means (X85-X92, X96-Y09, Y87.1)</i>	34	21	13	1.2	1.5
19	20	17		In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48)	83	40	43	2.9	2.8
20	15	24		HIV disease (B20-B24)	66	59	7	2.3	4.1

- Not ranked (only the broader category, which includes this item, is ranked)

-- Rates not calculated for deaths fewer than five

Rank			<u>Cause of Death (ICD-10 code)</u>	No. of Deaths			Rate (per 100,000 pop.)		
<u>Both</u>	<u>Male</u>	<u>Fem.</u>		<u>Both</u>	<u>Male</u>	<u>Fem.</u>	<u>Both</u>	<u>Male</u>	<u>Fem.</u>
21	21	19	<i>Peptic ulcer (K25-K28)</i>	56	27	29	2.0	1.9	2.1
22	22	23	<i>Viral hepatitis (B15-B19)</i>	20	12	8	0.7	0.8	0.6
23	23	22	<i>Cholelithiasis & other disorders of gallbladder (K80-K82)</i>	19	7	12	0.7	0.5	0.9
24	32	21	<i>Septicemia (A40-A41)</i>	16	3	13	0.6	--	0.9
25	23	28	<i>Nutritional deficiencies (E40-E64)</i>	12	7	5	0.4	0.5	0.4
-	-	-	<i>Malnutrition (E40-E46)</i>	10	7	3	0.4	0.5	--
-	-	-	<i>Other nutritional deficiencies (E50-E64)</i>	2	0	2	--	--	--
25	26	26	<i>Hernia (K40-K46)</i>	12	6	6	0.4	0.4	0.4
27	23	29	<i>Anemias (D50-D64)</i>	11	7	4	0.4	0.5	--
28	28	30	<i>Tuberculosis (A16-A19)</i>	8	5	3	0.3	0.3	--
-	-	-	<i>Respiratory tuberculosis (A16)</i>	7	5	2	0.2	0.3	--
-	-	-	<i>Other tuberculosis (A17-A19)</i>	1	0	1	--	--	--
29	-	24	<i>Infections of kidney (N10-N12, N13.6, N15.1)</i>	7	0	7	0.2	--	0.5
30	31	32	<i>Pneumonitis due to solids and liquids (J69)</i>	6	4	2	0.2	--	--
30	-	26	<i>Pregnancy, childbirth and the puerperium (O00-O99)</i>	6	0	6	0.2	--	0.4
-	-	-	<i>Pregnancy with abortive outcome (O00-O07)</i>	0	0	0	0.0	--	--
-	-	-	<i>Other complications of pregnancy, childbirth & puerperium (O10-O99)</i>	6	0	6	0.2	--	0.4
30	26		<i>Legal intervention (Y35, Y89.0)</i>	6	6	0	0.2	0.4	--
30	32	30	<i>Complications of medical & surgical care (Y40-Y84, Y88)</i>	6	3	3	0.2	--	--
34	28		<i>Pneumoconioses & chemical effects (J60-J66, J68)</i>	5	5	0	0.2	0.3	--
34	28		<i>Diseases of appendix (K35-K38)</i>	5	5	0	0.2	0.3	--
36	34	34	<i>Meningitis (G00, G03)</i>	3	2	1	--	--	--
36	36	32	<i>Acute bronchitis & bronchiolitis (J20-J21)</i>	3	1	2	--	--	--
38	34		<i>Meningococcal infection (A39)</i>	2	2	0	--	--	--

- Not ranked (only the broader category, which includes this item, is ranked)

-- Rates not calculated for deaths fewer than five

Cause of Death
Orange County Residents, 1999
113 Selected Causes

<i><u>Cause of Death (ICD-10 code)</u></i>	<i>No. of Deaths</i>			<i>Rate (per 100,000 pop.)</i>		
	<i>Both</i>	<i>Male</i>	<i>Fem.</i>	<i>Both</i>	<i>Male</i>	<i>Fem.</i>
<i>All causes</i>	16,644	7,948	8,696	585.6	553.1	618.8
<i>Salmonella infections</i> (A01-A02)	0	0	0	--	--	--
<i>Shigellosis and amebiasis</i> (A03, A06)	0	0	0	--	--	--
<i>Certain other intestinal diseases</i> (A04, A07-A09)	7	2	5	0.2	--	0.4
<i>Tuberculosis</i> (A16-A19)	8	5	3	0.3	0.3	0.2
<i>Respiratory tuberculosis</i> (A16)	7	5	2	0.2	0.3	0.1
<i>Other tuberculosis</i> (A17-A19)	1	0	1	--	--	--
<i>Whooping cough</i> (A37)	0	0	0	--	--	--
<i>Scarlet fever and erysipelas</i> (A38, A46)	0	0	0	--	--	--
<i>Meningococcal infection</i> (A39)	2	2	0	--	--	--
<i>Septicemia</i> (A40-A41)	16	3	13	0.6	--	0.9
<i>Syphilis</i> (A50-A53)	0	0	0	--	--	--
<i>Acute poliomyelitis</i> (A80)	0	0	0	--	--	--
<i>Arthropod-borne viral encephalitis</i> (A83-A84, A85.2)	0	0	0	--	--	--
<i>Measles</i> (B05)	0	0	0	--	--	--
<i>Viral hepatitis</i> (B15-B19)	20	12	8	0.7	0.8	0.6
<i>HIV disease</i> (B20-B24)	66	59	7	2.3	4.1	0.5
<i>Malaria</i> (B50-B54)	0	0	0	--	--	--
<i>Other & unspecified infectious & parasitic diseases</i> (A00, A05, A20-A36, A42- A44, A48-A49, A54-A79, A81-A82, A85.0-A85.1, A85.8, A86-B04, B06-B09, B25-B49, B55-B99)	101	53	48	3.6	3.7	3.4
<i>Malignant neoplasms</i> (C00-C97)	4,012	2,000	2,012	141.1	139.2	143.2
<i>Malignant neoplasms of lip, oral cavity & pharynx</i> (C00-C14)	69	38	31	2.4	2.6	2.2
<i>Malignant neoplasm of esophagus</i> (C15)	101	76	25	3.6	5.3	1.8
<i>Malignant neoplasm of stomach</i> (C16)	113	65	48	4.0	4.5	3.4
<i>Malignant neoplasms of colon, rectum and anus</i> (C18-C21)	393	198	195	13.8	13.8	13.9
<i>Malignant neoplasms of liver & intrahepatic bile ducts</i> (C22)	113	74	39	4.0	5.1	2.8
<i>Malignant neoplasm of pancreas</i> (C25)	211	108	103	7.4	7.5	7.3

-- Rates not calculated for deaths fewer than five

Prepared by: County of Orange, Health Care Agency, Epidemiology and Assessment

<i>Cause of Death (ICD-10 code)</i>	<i>No. of Deaths</i>			<i>Rate (per 100,000 pop.)</i>		
	<i>Both</i>	<i>Male</i>	<i>Fem.</i>	<i>Both</i>	<i>Male</i>	<i>Fem.</i>
<i>Malignant neoplasm of larynx (C32)</i>	12	6	6	0.4	0.4	0.4
<i>Malignant neoplasms of trachea, bronchus & lung (C33-C34)</i>	1,019	530	489	35.8	36.9	34.8
<i>Malignant melanoma of skin (C43)</i>	65	42	23	2.3	2.9	1.6
<i>Malignant neoplasm of breast (C50)</i>	304	0	304	10.7	--	21.6
<i>Malignant neoplasm of cervix uteri (C53)</i>	40	0	40	1.4	--	2.8
<i>Malignant neoplasms of corpus uteri & uterus, part unspec. (C54-C55)</i>	44	0	44	1.5	--	3.1
<i>Malignant neoplasm of ovary (C56)</i>	121	0	121	4.3	--	8.6
<i>Malignant neoplasm of prostate (C61)</i>	217	217	0	7.6	15.1	--
<i>Malignant neoplasms of kidney & renal pelvis (C64-C65)</i>	65	39	26	2.3	2.7	1.9
<i>Malignant neoplasm of bladder (C67)</i>	94	64	30	3.3	4.5	2.1
<i>Malignant neoplasms of meninges, brain & oth. Parts of CNS (C70-C72)</i>	129	69	60	4.5	4.8	4.3
<i>Malignant neoplasms of lymphoid, hematopoietic & related tissues (C81-C96)</i>	449	250	199	15.8	17.4	14.2
<i>Hodgkin's disease (C81)</i>	14	7	7	0.5	0.5	0.5
<i>Non-Hodgkin's lymphoma (C82-C85)</i>	173	103	70	6.1	7.2	5.0
<i>Leukemia (C91-C95)</i>	195	105	90	6.9	7.3	6.4
<i>Multiple myeloma & immunoproliferative neoplasms (C88, C90)</i>	65	35	30	2.3	2.4	2.1
<i>Oth. & unspec. malig. neoplasms of lymphoid & related tissues (C96)</i>	2	0	2	--	--	--
<i>All other & unspec. malignant neoplasms (C17, C23-C24, C26-C31, C37-C41, C44- C49, C51-C52, C57-C60, C62-C63, C66, C68-C69, C73-C80, C97)</i>	453	224	229	15.9	15.6	16.3
<i>In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48)</i>	83	40	43	2.9	2.8	3.1
<i>Anemias (D50-D64)</i>	11	7	4	0.4	0.5	--
<i>Diabetes mellitus (E10-E14)</i>	427	197	230	15.0	13.7	16.4
<i>Nutritional deficiencies (E40-E64)</i>	12	7	5	0.4	0.5	0.4
<i>Malnutrition (E40-E46)</i>	10	7	3	0.4	0.5	--
<i>Other nutritional deficiencies (E50-E64)</i>	2	0	2	--	--	--
<i>Meningitis (G00, G03)</i>	3	2	1	--	--	--
<i>Parkinson's disease (G20-G21)</i>	134	84	50	4.7	5.8	3.6
<i>Alzheimer's disease (G30)</i>	244	64	180	8.6	4.5	12.8
<i>Major cardiovascular diseases (I00-I78)</i>	7,074	3,163	3,911	248.9	220.1	278.3
<i>Diseases of heart (I00-I09, I11, I13, I20-I51)</i>	5,296	2,485	2,811	186.3	172.9	200.0
<i>Acute rheumatic fever & chronic rheumatic heart diseases (I00-I09)</i>	31	14	17	1.1	1.0	1.2
<i>Hypertensive heart disease (I11)</i>	152	50	102	5.3	3.5	7.3

-- Rates not calculated for deaths fewer than five

Prepared by: County of Orange, Health Care Agency, Epidemiology and Assessment

<u>Cause of Death (ICD-10 code)</u>	No. of Deaths			Rate (per 100,000 pop.)		
	Both	Male	Fem.	Both	Male	Fem.
<i>Hypertensive heart & renal disease (I13)</i>	37	16	21	1.3	1.1	1.5
<i>Ischemic heart diseases (I20-I25)</i>	4,462	2,133	2,329	157.0	148.4	165.7
<i>Acute myocardial infarction (I21-I22)</i>	1,334	702	632	46.9	48.8	45.0
<i>Other acute ischemic heart disease (I24)</i>	4	2	2	--	--	--
<i>Other forms of chronic ischemic heart disease (I20, I25)</i>	3,124	1,429	1,695	109.9	99.4	120.6
<i>Atherosclerotic cardiovascular disease, so described (I25.0)</i>	538	213	325	18.9	14.8	23.1
<i>All other forms of chronic ischemic heart disease (I20, I25.1-I25.9)</i>	2,586	1,216	1,370	91.0	84.6	97.5
<i>Other heart diseases (I26-I51)</i>	614	272	342	21.6	18.9	24.3
<i>Acute & subacute endocarditis (I33)</i>	8	5	3	0.3	0.3	--
<i>Diseases of pericardium & acute myocarditis (I30-I31, I40)</i>	8	5	3	0.3	0.3	--
<i>Heart failure (I50)</i>	173	58	115	6.1	4.0	8.2
<i>All other forms of heart disease (I26-I28, I34-I38, I42-I49, I51)</i>	425	204	221	15.0	14.2	15.7
<i>Essential (primary) hypertension & hypertensive renal disease (I10, I12)</i>	111	44	67	3.9	3.1	4.8
<i>Cerebrovascular diseases (I60-I69)</i>	1,340	489	851	47.1	34.0	60.6
<i>Atherosclerosis (I70)</i>	160	52	108	5.6	3.6	7.7
<i>Other diseases of circulatory system (I71-I78)</i>	167	93	74	5.9	6.5	5.3
<i>Aortic aneurysm & dissection (I71)</i>	113	71	42	4.0	4.9	3.0
<i>Other diseases of arteries, arterioles & capillaries (I72-I78)</i>	54	22	32	1.9	1.5	2.3
<i>Other disorders of circulatory system (I80-I99)</i>	44	12	32	1.5	0.8	2.3
<i>Influenza and pneumonia (J10-J18)</i>	680	282	398	23.9	19.6	28.3
<i>Influenza (J10-J11)</i>	7	0	7	0.2	--	0.5
<i>Pneumonia (J12-J18)</i>	673	282	391	23.7	19.6	27.8
<i>Other acute lower respiratory infections (J20-J22)</i>	3	1	2	--	--	--
<i>Acute bronchitis & bronchiolitis (J20-J21)</i>	3	1	2	--	--	--
<i>Unspecified acute lower respiratory infection (J22)</i>	0	0	0	--	--	--
<i>Chronic lower respiratory diseases (J40-J47)</i>	899	397	502	31.6	27.6	35.7
<i>Bronchitis, chronic & unspecified (J40-J42)</i>	10	2	8	0.4	--	0.6
<i>Emphysema (J43)</i>	142	66	76	5.0	4.6	5.4
<i>Asthma (J45-J46)</i>	35	12	23	1.2	0.8	1.6
<i>Other chronic lower respiratory diseases (J44, J47)</i>	712	317	395	25.0	22.1	28.1
<i>Pneumoconioses & chemical effects (J60-J66, J68)</i>	5	5	0	0.2	0.3	--
<i>Pneumonitis due to solids and liquids (J69)</i>	6	4	2	0.2	--	--

-- Rates not calculated for deaths fewer than five

Prepared by: County of Orange, Health Care Agency, Epidemiology and Assessment

<i>Cause of Death (ICD-10 code)</i>	<i>No. of Deaths</i>			<i>Rate (per 100,000 pop.)</i>		
	<i>Both</i>	<i>Male</i>	<i>Fem.</i>	<i>Both</i>	<i>Male</i>	<i>Fem.</i>
<i>Other diseases of respiratory system (J00-J06, J30-J39, J67, J70-J98)</i>	113	55	58	4.0	3.8	4.1
<i>Peptic ulcer (K25-K28)</i>	56	27	29	2.0	1.9	2.1
<i>Diseases of appendix (K35-K38)</i>	5	5	0	0.2	0.3	--
<i>Hernia (K40-K46)</i>	12	6	6	0.4	0.4	0.4
<i>Chronic liver disease and cirrhosis (K70, K73-K74)</i>	232	157	75	8.2	10.9	5.3
<i>Alcoholic liver disease (K70)</i>	148	111	37	5.2	7.7	2.6
<i>Other chronic liver disease and cirrhosis (K73-K74)</i>	84	46	38	3.0	3.2	2.7
<i>Cholelithiasis & other disorders of gallbladder (K80-K82)</i>	19	7	12	0.7	0.5	0.9
<i>Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)</i>	124	67	57	4.4	4.7	4.1
<i>Acute & rapidly progressive nephritic & nephrotic synd. (N00-N01, N04)</i>	1	0	1	--	--	--
<i>Chronic glomerulonephritis, nephritis, and nephritis not specified as acute or chronic, and renal sclerosis unspecified (N02-N03, N05-N07, N26)</i>	10	5	5	0.4	0.3	0.4
<i>Renal failure (N17-N19)</i>	113	62	51	4.0	4.3	3.6
<i>Other disorders of kidney (N25, N27)</i>	0	0	0	--	--	--
<i>Infections of kidney (N10-N12, N13.6, N15.1)</i>	7	0	7	0.2	--	0.5
<i>Hyperplasia of prostate (N40)</i>	0	0	0	0.0	--	--
<i>Inflammatory diseases of female pelvic organs (N70-N76)</i>	0	0	0	0.0	--	--
<i>Pregnancy, childbirth and the puerperium (O00-O99)</i>	6	0	6	0.2	--	0.4
<i>Pregnancy with abortive outcome (O00-O07)</i>	0	0	0	0.0	--	--
<i>Other complications of pregnancy, childbirth & puerperium (O10-O99)</i>	6	0	6	0.2	--	0.4
<i>Certain conditions originating in the perinatal period (P00-P96)</i>	101	50	51	3.6	3.5	3.6
<i>Congenital malformations & chromosomal abnormalities (Q00-Q99)</i>	112	52	60	3.9	3.6	4.3
<i>Symp., signs & abnormal clinical & lab findings not elsewhere classf'd (R00-R99)</i>	46	22	24	1.6	1.5	1.7
<i>All other diseases (residual) (D65-E07, E15-E34, E65-F99, G04-G12, G23-G25, G31-H93, K00-K22, K29-K31, K50-K66, K71-K72, K75-K76, K83-M99, N13.0-N13.5, N13.7-N13.9, N14, N15.0, N15.8-N15.9, N20-N23, N28-N39, N41-N64, N80-N98)</i>	986	425	561	34.7	29.6	39.9
<i>Accidents (V01-X59, Y85-Y86)</i>	623	414	209	21.9	28.8	14.9
<i>Transport accidents (V01-V99, Y85)</i>	248	185	63	8.7	12.9	4.5
<i>Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6,V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....</i>	210	155	55	7.4	10.8	3.9
<i>Oth. land transp. accid. (V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9</i>	17	9	8	0.6	0.6	0.6
<i>Water, air & space, and other & unspec. transp. accid. (V90-V99, Y85)</i>	21	21	0	0.7	1.5	--

-- Rates not calculated for deaths fewer than five

Prepared by: County of Orange, Health Care Agency, Epidemiology and Assessment

<i>Cause of Death (ICD-10 code)</i>	<i>No. of Deaths</i>			<i>Rate (per 100,000 pop.)</i>		
	<i>Both</i>	<i>Male</i>	<i>Fem.</i>	<i>Both</i>	<i>Male</i>	<i>Fem.</i>
<i>Nontransport accidents (W00-X59, Y86)</i>	375	229	146	13.2	15.9	10.4
<i>Falls (W00-W19)</i>	113	59	54	4.0	4.1	3.8
<i>Accidental discharge of firearms (W32-W34)</i>	2	2	0	--	--	--
<i>Accidental drowning and submersion (W65-W74)</i>	29	22	7	1.0	1.5	0.5
<i>Accidental exposure to smoke, fire and flames (X00-X09)</i>	7	2	5	0.2	--	0.4
<i>Accidental poisoning & exposure to noxious substances (X40-X49)</i>	166	108	58	5.8	7.5	4.1
<i>Other & unspecified nontransport accidents (W20-W31, W35-W64, W75-W99, X10-X39, X50-X59, Y86)</i>	58	36	22	2.0	2.5	1.6
<i>Intentional self-harm (suicide) (X60-X84, Y87.0)</i>	210	165	45	7.4	11.5	3.2
<i>Intentional self-harm (suicide) by firearms (X72-X74)</i>	98	89	9	3.4	6.2	0.6
<i>Intent'l self-harm (suicide) by oth. & unspec. means (X60-X71, X75-X84, Y87.0)</i>	112	76	36	3.9	5.3	2.6
<i>Assault (homicide) (X85-Y09, Y87.1)</i>	96	72	24	3.4	5.0	1.7
<i>Assault (homicide) by firearms (X93-X95)</i>	62	51	11	2.2	3.5	0.8
<i>Assault (homicide) by other & unspecified means (X85-X92, X96-Y09, Y87.1)</i>	34	21	13	1.2	1.5	0.9
<i>Legal intervention (Y35, Y89.0)</i>	6	6	0	0.2	0.4	--
<i>Events of undetermined intent (Y10-Y34, Y87.2, Y89.9)</i>	27	14	13	0.9	1.0	--
<i>Discharge of firearms, undetermined intent (Y22-Y24)</i>	4	4	0	0.1	0.3	0.0
<i>Other & unspec. events of undetermined intent (Y10-Y21, Y25-Y34, Y87.2, Y89.9)</i>	23	10	13	0.8	0.7	0.9
<i>Operations of war (Y36, Y89.1)</i>	0	0	0	--	--	--
<i>Complications of medical & surgical care (Y40-Y84, Y88)</i>	6	3	3	0.2	--	--

-- Rates not calculated for deaths fewer than five

Prepared by: County of Orange, Health Care Agency, Epidemiology and Assessment

Fifteen Leading Causes of Death Orange County Residents, 1999

	All Races			White			Hispanic			Asian & Pacific Isl**			African Am.		
	No.	Rate*	Age-adj. Rate	No.	Rate*	Age-adj. Rate	No.	Rate*	Age-adj. Rate	No.	Rate*	Age-adj. Rate	No.	Rate*	Age-adj. Rate
Diseases of heart (I00-I09, I11, I13, I20-I51)	5,296	186.3	260.4	4,627	290.4	283.4	344	41.4	137.4	275	75.4	175.8	44	99.0	311.9
Malignant neoplasms (C00-C97)	4,012	141.1	180.9	3,299	207.1	193.1	306	36.8	100.4	351	96.2	165.9	49	110.3	265.6
Cerebrovascular diseases (I60-I69)	1,340	47.1	66.4	1,102	69.2	68.1	106	12.8	41.1	117	32.1	67.1	14	--	--
Chronic lower respiratory diseases (J40-J47)	899	31.6	43.6	813	51.0	49.1	49	5.9	22.0	27	7.4	15.8	8	18.0	56.5
Influenza and pneumonia (J10-J18)	680	23.9	34.9	576	36.2	36.1	48	5.8	22.5	49	13.4	35.5	4	--	--
Accidents (V01-X59, Y85-Y86)	623	21.9	24.1	412	25.9	25.2	138	16.6	18.8	61	16.7	20.6	11	24.8	30.8
Motor vehicle accidents	210	7.4	7.7	109	6.8	6.9	64	7.7	9.4	32	8.8	9.1	5	11.3	9.5
All other accidents	413	14.5	16.4	303	19.0	18.3	74	8.9	9.4	29	7.9	11.5	6	13.5	21.3
Diabetes mellitus (E10-E14)	427	15.0	19.8	300	18.8	17.8	79	9.5	31.0	41	11.2	25.0	6	13.5	44.3
Alzheimer's disease (G30)	244	8.6	12.7	224	14.1	14.1	12	1.4	6.7	7	1.9	5.5	1	--	--
Chronic liver disease and cirrhosis (K70, K73-K74)	232	8.2	9.3	162	10.2	9.1	51	6.1	14.0	14	3.8	5.4	3	--	--
Intentional self-harm (suicide) (X60-X84, Y87.0)	210	7.4	7.9	169	10.6	10.0	16	1.9	2.5	20	5.5	5.9	5	11.3	10.9
Atherosclerosis (I70)	160	5.6	8.2	140	8.8	8.7	13	1.6	7.1	6	1.6	3.9	1	--	--
Parkinson's disease (G20-G21)	134	4.7	6.8	118	7.4	7.3	8	1.0	3.8	8	2.2	5.9	0		
Nephritis, neph. synd. & nephrosis (N00-N07, N17-N19, N25-N27)	124	4.4	5.8	91	5.7	5.5	23	2.8	9.2	10	2.7	6.8	0		
Aortic aneurysm & dissection (I71)	113	4.0	5.3	104	6.5	6.2	5	0.6	1.9	3			1	--	--
Congenital malform. & chromosomal abnorm. (Q00-Q99)	112	3.9	3.6	48	3.0	3.2	46	5.5	3.5	15	4.1	3.8	3	--	--
Essential (prim.) hypert. & hypertensive renal dis. (I10, I12)	111	3.9	5.5	98	6.2	6.1	2			8	2.2	5.2	3	--	--
Certain conditions originating in perinatal period (P00-P96)	101	3.6	2.8	24	1.5	1.9	61	7.3	3.5	11	3.0	2.4	4	--	--
Assault (homicide) (X85-Y09, Y87.1)	96	3.4	3.5	37	2.3	2.4	45	5.4	4.9	12	3.3	3.2	2	--	--
In situ neopl., benign neopl., & neopl. of unk. beh. (D00-D48)	83	2.9	3.9	68	4.3	4.1	10	1.2	2.7	4			1	--	--
HIV disease (B20-B24)	66	2.3	2.3	32	2.0	1.8	27	3.2	3.6	3			3	--	--
Viral hepatitis (B15-B19)	20	0.7	0.8	8	0.5	0.5	4			8	2.2	3.1	0		
Complications of medical & surgical care (Y40-Y84, Y88)	6	0.2	0.3	5	0.3	0.3	0			0			1	--	--
Diseases of appendix (K35-K38)	5	0.2	0.2	3			1			0			1	--	--

* Rate per 100,000 pop. within specified racial/ethnic group

-- Rate not calculated for deaths fewer than five

** Includes Southeast Asians

Not among 15 leading causes of death

Deaths Due to Malignant Neoplasms
Orange County, 1999 (Resident Deaths)

	Rate*	All races			White		Hispanic		SE Asian		Oth. Asian		African Am.		Other	
		Tot.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
Malignant neoplasms: (C00-C97)	141.1	4,012	2,000	2,012	1,618	1,681	167	139	83	52	98	118	29	20	5	1
<i>Trachea, bronchus and lung (C33-C34)</i>	35.8	1,019	530	489	442	422	33	18	19	14	25	30	9	5	2	0
<i>Breast (female) (C50)</i>	21.6	304	...	304	...	265	...	22	...	3	...	12	...	2	...	0
<i>Lymphoid, hematopoietic & relt'd tissue (C81-C96)</i>	15.8	449	250	199	190	158	35	23	8	7	13	7	3	3	1	1
<i>Hodgkin's disease (C81)</i>	0.5	14	7	7	5	6	2	1	0	0	0	0	0	0	0	0
<i>Non-Hodgkin's lymphoma (C82-C85)</i>	6.1	173	103	70	72	56	17	7	3	2	9	3	2	2	0	0
<i>Leukemia (C91-C95)</i>	6.9	195	105	90	84	68	13	13	4	5	4	3	0	1	0	0
<i>Multiple myeloma & immunoproliferative (C88, C90)</i>	2.3	65	35	30	29	26	3	2	1	0	0	1	1	0	1	1
<i>Oth. & unspec. lymphoid, hematop. & relt'd tissue (C96)</i>	0.1	2	0	2	0	2	0	0	0	0	0	0	0	0	0	0
<i>Prostate (C61)</i>	15.1	217	217	...	188	...	15	...	2	...	8	...	3	...	1	...
<i>Colon, rectum, and anus (C18-C21)</i>	13.8	393	198	195	159	172	21	10	1	3	12	8	5	2	0	0
<i>Ovary (C56)</i>	8.6	121	...	121	...	104	...	9	...	2	...	5	...	1	...	0
<i>Pancreas (C25)</i>	7.4	211	108	103	92	83	6	7	8	3	2	10	0	0	0	0
<i>Meninges, brain & oth. parts of CNS (C70-C72)</i>	4.5	129	69	60	59	46	5	5	1	3	2	5	1	1	1	0
<i>Stomach (C16)</i>	4.0	113	65	48	42	26	9	5	8	4	6	12	0	0	0	0
<i>Liver and intrahepatic bile ducts (C22)</i>	4.0	113	74	39	31	23	8	3	22	4	11	8	2	1	0	0
<i>Esophagus (C15)</i>	3.6	101	76	25	67	19	4	5	1	0	2	1	2	0	0	0
<i>Bladder (C67)</i>	3.3	94	64	30	59	27	1	1	0	0	4	2	0	0	0	0
<i>Corpus uteri and uterus, part unspec. (C54-C55)</i>	3.1	44	...	44	...	40	...	2	...	1	...	1	...	0	...	0
<i>Cervix uteri (C53)</i>	2.8	40	...	40	...	31	...	8	...	0	...	1	...	0	...	0
<i>Lip, oral cavity and pharynx (C00-C14)</i>	2.4	69	38	31	28	25	3	3	4	2	3	1	0	0	0	0
<i>Melanoma of skin (C43)</i>	2.3	65	42	23	42	23	0	0	0	0	0	0	0	0	0	0
<i>Kidney and renal pelvis (C64-C65)</i>	2.3	65	39	26	29	21	5	1	2	0	2	2	1	2	0	0
<i>Larynx (C32)</i>	0.4	12	6	6	5	6	1	0	0	0	0	0	0	0	0	0
<i>All other & unspecified malignant neoplasms</i>	15.9	453	224	229	185	190	21	17	7	6	8	13	3	3	0	0

* per 100,000 pop. (rate is sex-specific when neoplasm is applicable to one sex only)

... category not applicable

Deaths Due to External Causes

Orange County residents, 1999

Cause of Death	sex	Age Group													
		all ages	under 1 yr.	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Total, external causes (V01-X59, Y85-Y86)	M	674	8	14	6	7	43	72	123	135	96	56	43	40	31
	F	294	5	9	4	3	9	8	38	53	41	21	19	48	36
	All	968	13	23	10	10	52	80	161	188	137	77	62	88	67
Intentional self-harm (suicide) (X60-X84, Y87.0)	M	165	0	0	0	1	3	14	28	30	29	22	19	13	6
	F	45	0	0	0	1	2	0	8	13	12	3	4	2	0
	All	210	0	0	0	2	5	14	36	43	41	25	23	15	6
Motor vehicle accidents (see ICD-10 codes at the end of table)	M	155	2	3	3	0	15	22	35	32	16	11	9	3	4
	F	55	1	4	3	0	2	5	10	4	8	6	4	5	3
	All	210	3	7	6	0	17	27	45	36	24	17	13	8	7
Accidental poisoning & exposure to noxious substances (X40-X49)	M	108	0	0	0	0	1	8	30	43	24	2	0	0	0
	F	58	0	0	0	0	0	1	9	24	13	5	2	2	2
	All	166	0	0	0	0	1	9	39	67	37	7	2	2	2
Falls (W00-W19)	M	59	3	0	0	0	0	0	1	3	7	5	7	17	16
	F	54	0	1	0	0	0	0	0	1	2	2	3	23	22
	All	113	3	1	0	0	0	0	1	4	9	7	10	40	38
Assault (homicide) (X85-Y09, Y87.1)	M	72	2	3	0	2	17	15	12	10	5	6	0	0	0
	F	24	2	1	1	1	3	2	5	3	3	1	1	1	0
	All	96	4	4	1	3	20	17	17	13	8	7	1	1	0
Other & unspec. nontransport accidents (W20-W31, W35-W64, W75-W99, X10-X39, X50-X59, Y86)	M	36	1	1	1	2	1	3	4	2	5	5	4	2	
	F	22	1	0	0	0	0	0	1	0	1	3	0	8	8
	All	58	2	1	1	2	1	3	5	2	6	8	5	12	10
Accidental drowning & submersion (W65-W74)	M	22	0	5	0	2	1	1	2	3	2	1	1	2	2
	F	7	1	2	0	0	1	0	0	0	1	0	2	0	0
	All	29	1	7	0	2	2	1	2	3	3	1	3	2	2
Undetermined intent - other & unspecified (Y10-Y21, Y25-Y34, Y89.9)	M	10	0	0	0	0	0	2	1	4	2	1	0	0	0
	F	13	0	0	0	0	0	0	3	6	0	1	2	1	0
	All	23	0	0	0	0	0	2	4	10	2	2	2	1	0
Water, air & space, other and unspecified transport accidents (V90-V99, Y85)	M	21	0	0	0	0	3	0	6	4	5	2	0	1	0
	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	All	21	0	0	0	0	3	0	6	4	5	2	0	1	0

Cause of Death	sex	Age Group													
		all ages	under 1 yr.	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
<i>Land transport accidents (other than motor vehicle) (see ICD-10 codes at the end of table)</i>	M	9	0	1	1	0	0	3	1	1	1	0	1	0	0
	F	8	0	0	0	1	1	0	0	2	1	0	0	3	0
	All	17	0	1	1	1	1	3	1	3	2	0	1	3	0
<i>Accidental exposure to smoke, fire & flames (X00-X09)</i>	M	2	0	1	1	0	0	0	0	0	0	0	0	0	0
	F	5	0	1	0	0	0	0	2	0	0	0	1	1	0
	All	7	0	2	1	0	0	0	2	0	0	0	1	1	0
<i>Complications of medical & surgical care (Y40-Y84, Y88)</i>	M	3	0	0	0	0	0	0	1	1	0	0	0	0	1
	F	3	0	0	0	0	0	0	0	0	0	0	0	2	1
	All	6	0	0	0	0	0	0	1	1	0	0	0	2	2
<i>Legal intervention (Y35, Y89.0)</i>	M	6	0	0	0	0	0	2	1	2	0	1	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	All	6	0	0	0	0	0	2	1	2	0	1	0	0	0
<i>Undetermined intent - discharge of firearms (Y22-Y24)</i>	M	4	0	0	0	0	1	2	1	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	All	4	0	0	0	0	1	2	1	0	0	0	0	0	0
<i>Accidental discharge of firearms (W32-W34)</i>	M	2	0	0	0	0	1	0	0	0	0	0	1	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	All	2	0	0	0	0	1	0	0	0	0	0	1	0	0

ICD-10 codes for motor vehicle accidents:

V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2

ICD-10 codes for land transport accidents (other than motor vehicle accidents):

V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9

Deaths Due to Transport Accidents

Orange County Residents, 1999

	Tot.	Age groups												
		< 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-85	85+
Total, transport accident deaths (V01-V99, Y85).....	248	3	8	7	1	21	30	52	43	31	19	14	12	7
<i>Occupant of car, pick-up truck, or van (V40-V59) in:</i>	105	2	1	3	0	11	17	24	14	10	9	7	3	4
<i>collision with car, van or pick-up (V43, V53).....</i>	48	2	1	2	0	7	7	12	4	4	2	4	0	3
<i>collision with heavy transp. vehicle or bus (V44, V54).....</i>	2	0	0	0	0	0	0	0	0	0	1	1	0	0
<i>collision with railway vehicle (V45, V55).....</i>	2	0	0	0	0	0	0	0	0	2	0	0	0	0
<i>collision with stationary objects (V47, V57).....</i>	27	0	0	0	0	1	7	3	4	2	5	2	3	0
<i>noncollision accidents (V48, V58).....</i>	23	0	0	1	0	3	3	7	5	2	1	0	0	1
<i>other & unspecified accidents (V49, V59).....</i>	3	0	0	0	0	0	0	2	1	0	0	0	0	0
<i>Pedestrian (V01-V09).....</i>	60	1	5	2	0	2	7	7	11	8	6	3	5	3
<i>Motor vehicle related (V02-V04, V09.0, V09.2).....</i>	55	1	5	2	0	2	5	7	10	7	6	2	5	3
<i>Railway (V05).....</i>	3	0	0	0	0	0	1	0	1	1	0	0	0	0
<i>Other and unspecified (V09.1, V09.3-V09.9).....</i>	2	0	0	0	0	0	1	0	0	0	0	1	0	0
<i>Motor cyclist (V20-V29).....</i>	18	0	0	0	0	1	1	6	4	3	2	1	0	0
<i>Pedal cyclist (V10-V19)</i>	17	0	1	1	0	2	2	3	6	1	0	1	0	0
<i>Occupant of aircraft (V95-V97).....</i>	10	0	0	0	0	2	0	3	2	2	1	0	0	0
<i>Person in unspecified other land transp. accid. (V89.9).....</i>	9	0	1	0	1	1	0	0	2	1	0	0	3	0
<i>Driver of special construction vehicle (V85.0).....</i>	8	0	0	0	0	0	0	2	2	2	1	0	1	0
<i>Person in unspecified motor vehicle accidents (V89.2).....</i>	5	0	0	0	0	0	0	2	2	1	0	0	0	0
<i>Occupant of off-road vehicle (V86).....</i>	3	0	0	0	0	0	2	0	0	0	0	1	0	0
<i>Person in specified but unknown mode of transp. (V87)....</i>	3	0	0	0	0	1	0	2	0	0	0	0	0	0
<i>Occupant of heavy transport vehicle (V60-V69).....</i>	3	0	0	0	0	0	0	0	0	2	0	1	0	0
<i>Water transport accidents (V90-V94).....</i>	3	0	0	0	0	1	0	1	0	1	0	0	0	0
<i>Animal rider or occupant of animal-drawn vehicle, (fall from or being thrown from in noncollision accid.) (V80.0) ...</i>	2	0	0	1	0	0	1	0	0	0	0	0	0	0
<i>Occupant of 3-wheel motor vehicle (V30-V39).....</i>	1	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Occupant of railway vehicle (V81).....</i>	1	0	0	0	0	0	0	1	0	0	0	0	0	0

Intentional self-harm (suicide)

By method, age, and sex

Orange County - 1999 (Resident Deaths)

Method		Age Group										
		All	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
<i>All methods</i> <i>(X60-X84)</i>	M	165	1	3	14	28	30	29	22	19	13	6
	F	45	1	2	0	8	13	12	3	4	2	0
	Tot.	210	2	5	14	36	43	41	25	23	15	6
	<i>Rate</i>	7.4	--	2.9	8.6	8.0	8.8	11.2	10.6	15.0	17.2	20.8
<i>Firearms and explosives</i> <i>(X72-X75)</i>	M	89	0	1	7	10	15	17	10	14	11	4
	F	9	0	1	0	1	4	3	0	0	0	0
	Tot.	98	0	2	7	11	19	20	10	14	11	4
	<i>Rate</i>	3.4	--	--	4.3	2.5	3.9	5.5	4.2	9.1	12.6	--
<i>Hanging, strangulation, suffocation</i> <i>(X70)</i>	M	30	1	2	4	5	7	3	4	2	2	0
	F	10	1	0	0	5	1	1	1	1	0	0
	Tot.	40	2	2	4	10	8	4	5	3	2	0
	<i>Rate</i>	1.4	--	--	--	2.2	1.6	--	2.1	--	--	--
<i>Drugs and alcohol</i> <i>(X60-X65)</i>	M	17	0	0	1	6	5	1	4	0	0	0
	F	19	0	1	0	1	6	6	1	2	2	0
	Tot.	36	0	1	1	7	11	7	5	2	2	0
	<i>Rate</i>	1.3	--	--	--	1.6	2.2	1.9	2.1	--	--	--
<i>Poisoning by gases, vapors, pesticides & unspecified chemicals</i> <i>(X66-X69)</i>	M	7	0	0	0	1	0	2	2	1	0	1
	F	3	0	0	0	0	1	1	1	0	0	0
	Tot.	10	0	0	0	1	1	3	3	1	0	1
	<i>Rate</i>	0.4	--	--	--	--	--	--	--	--	--	--
<i>Jumping from a high place</i> <i>(X80)</i>	M	8	0	0	1	2	1	2	1	1	0	0
	F	2	0	0	0	0	1	1	0	0	0	0
	Tot.	10	0	0	1	2	2	3	1	1	0	0
	<i>Rate</i>	0.4	--	--	--	--	--	--	--	--	--	--
<i>Sharp objects</i> <i>(X78)</i>	M	7	0	0	0	1	1	3	1	1	0	0
	F	1	0	0	0	1	0	0	0	0	0	0
	Tot.	8	0	0	0	2	1	3	1	1	0	0
	<i>Rate</i>	0.3	--	--	--	--	--	--	--	--	--	--
<i>Jumping or lying before moving objects</i> <i>(X81)</i>	M	3	0	0	0	3	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0
	Tot.	3	0	0	0	3	0	0	0	0	0	0
	<i>Rate</i>	--	--	--	--	--	--	--	--	--	--	--
<i>Smoke, fire, and flames</i> <i>(X76)</i>	M	2	0	0	0	0	1	1	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0
	Tot.	2	0	0	0	0	1	1	0	0	0	0
	<i>Rate</i>	--	--	--	--	--	--	--	--	--	--	--
<i>Crashing of motor vehicles</i> <i>(X82)</i>	M	2	0	0	1	0	0	0	0	0	0	1
	F	0	0	0	0	0	0	0	0	0	0	0
	Tot.	2	0	0	1	0	0	0	0	0	0	1
	<i>Rate</i>	--	--	--	--	--	--	--	--	--	--	--
<i>Drowning and submersion</i> <i>(X71)</i>	M	0	0	0	0	0	0	0	0	0	0	0
	F	1	0	0	0	0	0	0	0	1	0	0
	Tot.	1	0	0	0	0	0	0	0	1	0	0
	<i>Rate</i>	--	--	--	--	--	--	--	--	--	--	--

-- Rates not calculated for deaths fewer than five

Age groups under 10 not shown as there were no suicides in these groups

Deaths Due to Assault (Homicide)
Orange County Residents, 1999

Method	sex	Age Group													
		all ages	under 1 yr.	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
<i>All methods (X85-Y09, Y87.1)</i>	M	72	2	3	0	2	17	15	12	10	5	6	0	0	0
	F	24	2	1	1	1	3	2	5	3	3	1	1	1	0
	All	96	4	4	1	3	20	17	17	13	8	7	1	1	0
<i>Firearms & explosives (X93-X96)</i>	M	51	0	0	0	1	17	14	7	7	3	2	0	0	0
	F	11	0	0	0	1	3	0	2	2	2	1	0	0	0
	All	62	0	0	0	2	20	14	9	9	5	3	0	0	0
<i>Sharp objects (X99)</i>	M	10	0	0	0	0	0	0	4	3	2	1	0	0	0
	F	3	0	0	0	0	0	1	0	1	1	0	0	0	0
	All	13	0	0	0	0	0	1	4	4	3	1	0	0	0
<i>Other & unspecified means (Y08-Y09)</i>	M	4	0	2	0	1	0	0	0	0	0	1	0	0	0
	F	3	1	0	0	0	0	0	1	0	0	0	1	0	0
	All	7	1	2	0	1	0	0	1	0	0	1	1	0	0
<i>Hanging, strangulation & suffocation (X91)</i>	M	2	1	0	0	0	0	0	1	0	0	0	0	0	0
	F	4	0	0	0	0	0	1	2	0	0	0	0	1	0
	All	6	1	0	0	0	0	1	3	0	0	0	0	1	0
<i>Neglect or abandonment (Y06)</i>	M	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	F	1	0	1	0	0	0	0	0	0	0	0	0	0	0
	All	2	1	1	0	0	0	0	0	0	0	0	0	0	0
<i>Oth. maltreatment synd. (incl. mental cruelty, phys. abuse, sexual abuse (excl. sexual assault by bodily force), torture (Y07)</i>	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	F	2	1	0	1	0	0	0	0	0	0	0	0	0	0
	All	2	1	0	1	0	0	0	0	0	0	0	0	0	0
<i>Blunt objects (Y00)</i>	M	1	0	0	0	0	0	0	0	0	0	1	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	All	1	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Motor vehicle (Y02-Y03)</i>	M	1	0	1	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	All	1	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Bodily force (unarmed brawl or fight) (Y04)</i>	M	1	0	0	0	0	0	1	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	All	1	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Sequelae of assault (Y87.1)</i>	M	1	0	0	0	0	0	0	0	0	0	1	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	All	1	0	0	0	0	0	0	0	0	0	1	0	0	0

Deaths Due to Firearm Discharge
Orange County Residents, 1999

	sex	Age Group*									
		all ages	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Firearm discharge, total <i>(W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0)</i>	M	146	2	42	18	22	20	12	15	11	4
	F	20	1	4	3	6	5	1	0	0	0
	All	166	3	46	21	28	25	13	15	11	4
Firearm used in suicide <i>(X72 - X74)</i>	M	89	0	8	10	15	17	10	14	11	4
	F	9	0	1	1	4	3	0	0	0	0
	All	98	0	9	11	19	20	10	14	11	4
Firearm used in homicide <i>(X93-X95)</i>	M	51	1	31	7	7	3	2	0	0	0
	F	11	1	3	2	2	2	1	0	0	0
	All	62	2	34	9	9	5	3	0	0	0
Firearm use, undetermined intent <i>(Y22-Y24)</i>	M	4	0	3	1	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0
	All	4	0	3	1	0	0	0	0	0	0
Firearm discharge, accidental <i>(W32-W34)</i>	M	2	1	0	0	0	0	0	1	0	0
	F	0	0	0	0	0	0	0	0	0	0
	All	2	1	0	0	0	0	0	1	0	0

* There were no deaths associated with firearms for those under five years of age

Cause-of-death classification and ranking

Starting with 1999 mortality data, the federal government and the State of California implemented the use of the Tenth Revision of the International Classification of Diseases (ICD-10) for reporting the underlying cause of death. ICD-10, which replaces ICD-9, provides a more expanded and detailed classification of diseases. Some cause-of-death titles have been changed and regrouped. For example, transient cerebral ischemic attacks have been moved from *Diseases of the circulatory system* to *Diseases of the nervous system*.

The cause-of-death ranking used here is based on 50 rankable causes. These are cause-of-death titles included in the 113 selected causes of death, as used in the federal mortality report. For infant deaths, however, 71 rankable causes from the list of 130 selected causes have been used. When a rankable cause of death includes further sub-categories or individual diseases, only the broader category is ranked; its comprising detailed causes are not ranked. Category titles that begin with the words “other” or “all other” are not ranked. Additionally, the group titles *Major cardiovascular diseases* and *Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified* are not ranked.

Computation of rates

The rates used in various tables are per 100,000 population. In tables where causes of death are reported by either age group or by ethnic group, the rates are based on 100,000 population within specific age or ethnic groups. For example, cause-of-death rates for Latinos are based on the Latino population in Orange County.

Rates are not calculated where the number of deaths is fewer than five. Random variation in a given cause of death could produce misleadingly magnified variations in mortality rates when the number of deaths is very small.

Infant deaths

The rate used for infants is the infant death rates. The infant death rate is:

(The number of deaths among children less than one year of age during the year) ÷ (The number of children aged less than one year in the population during the same year) x 100,000.

The more familiar measure, the infant mortality rate, is actually a ratio of the number of infant deaths divided by the number of live births during the year in question. Infant mortality rates are presented in the annual summary of natality data.

Age-adjusted rates vs. crude rates

Age is a leading risk factor for many causes of death. When comparing populations, such as the Orange County population with the United States population (e.g., different racial/ethnic groups, or the same population at different time periods) differences in age structure can account for some, sometimes very large, differences in the unadjusted (crude) rates. Age adjustment, sometimes called age standardization, is performed in order to remove the effect of age from the comparison. An age-adjusted rate is a summary number representing a weighted average of age-specific rates. The weights for each age group are provided by use of a “standard” population. Age-adjusted rates present a summary measure for comparing two or more populations. The United States 2000 standard population figures have been used to generate the age-adjusted rates. Age-adjusted rates are fictitious; the absolute magnitude of the age-adjusted rates depends on the standard population that is chosen.

Beginning with the year 1999, the federal and state mortality reports started using the year 2000 standard population, replacing the earlier 1940 standard population figures. As a result, and because of the change from ICD-9 to ICD-10, age-adjusted rates in this report cannot be used for comparing present data with data prior to 1999.

Race/ethnic categories

The racial/ethnic categories used are:

- White
- Hispanic
- African American
- Southeast Asian
- Other Asian
- Other

However, in tables where rates are age-adjusted, the following categories are used:

- White
- Hispanic
- African American
- Asian & Pacific Islander (including Southeast Asians)
- Native American, Eskimo, and Aleut
- Other

The reason for using the second set of categories is that age-specific population estimates were available for these categories only (age-specific population figures are necessary for computing age-adjusted rates).

Quality of Cause of Death Data

The number of causes of death reported as *Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified* may be a rough indication of the quality of the death certificate data. If the size of this category is very small, it might mean that sufficient effort has been made to determine the underlying cause of death, thereby obviating the need to use a “catch-all” category when the cause of death has not been definitively established or reported. There were only 46 cases where this category was used; this represents only .3% of Orange County deaths. By comparison, this category comprises 1.2% of the deaths in the 1999 preliminary US mortality data.

Appendix
Population estimates*
Orange County, July 1999

AGE	Total	White	Hispanic	Asian & Pacific. Isl.	African American	Native American
under 1	49,017	17,629	24,016	6,441	826	105
1 - 4	199,889	74,671	95,860	25,596	3,330	432
5 - 9	256,938	108,394	112,115	31,383	4,573	473
10 - 14	192,155	93,323	67,929	26,388	4,055	460
15 - 19	173,750	85,692	57,366	26,577	3,585	529
20 - 24	161,956	77,740	53,119	26,877	3,690	529
25 - 34	447,530	211,703	165,925	60,399	7,953	1,550
35 - 44	489,254	290,705	127,901	62,750	6,336	1,561
45 - 54	366,460	247,871	63,432	48,356	5,382	1,418
55 - 64	236,023	171,260	33,703	27,153	3,004	903
65 - 74	153,490	118,523	18,953	14,402	1,182	429
75 - 84	87,138	71,588	8,090	6,835	404	221
85+	28,799	24,156	2,745	1,702	120	76
Total	2,842,400	1,593,257	831,155	364,858	44,441	8,689

* The above population data are based on estimates by the State Department of Finance (DOF). The detailed population estimates of various age and ethnic groups available from DOF were not based on the most current total population estimate (2,842,400); they were only available for an earlier estimate, based on a population of 2,787,593. Ethnic and age-group population figures used here for rate calculation were arrived at by uniformly incrementing DOF's detailed population figures (based on their earlier total estimates) by a factor of 1.019661048, which benchmarks those figures to the most current total population estimate of 2,842,400.